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SMITH COUNTY, TEXAS

Records of wells, drillers' logs,
water analyses,
and map showing location of wells.

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WORKS PROGRESS ADMINISTRATION

GROUND-WATER SURVEY

PROJECT 2073

W. M. Lyle

Project Superintendent

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Analyses made, map prepared, data
assembled, and report mimeographed by

WORKS PROGRESS ADMINISTRATION

PROJECT 6507-5112

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Sponsored by the State Board of Water Engineers with
the Bureau of Industrial Chemistry of The University
of Texas and the U. S. Geological Survey cooperating.

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Austin, Texas
Sept. 15, 1937

SMITH COUNTY, TEXAS

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Introduction
by
Samuel F. Turner
Associate Hydraulic Engineer
U. S. Geological Survey

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and put down test holes where additional information was needed.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of The University of Texas furnished laboratory space and equipment and supervised the chemical analyses.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Board of Water Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Smith County was started on July 1, 1936 and completed October 10, 1936. This work was done as Project 2073 of District 2 of the Works Progress Administration, Tyler, Texas. W. M. Lyle, an engineer, was project superintendent. Mr. Lyle should be given credit for his great interest in the work and for the many extra hours he spent on the project. The office of the Works Progress Administration in the Tyler District made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the map in the back of the release.

The test wells were drilled by W. P. A. labor using a soil auger, drop auger, churn drill, and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendent studied these samples and compiled the logs.

Records of wells and springs in Smith County, Texas
(All wells are dug unless otherwise indicated in "Remarks" column.)
(See "Logs of W.P.A. test wells" for all records of test wells.)

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
1	28½ miles northwest	J. G. Garrett	J. W. Carpenter	J. W. Carpenter	1914	16	56	3.5
d/ 2	28 miles northwest	Wm. Hickman	Pick Smith	--	--	23	36	2.2
3	27 miles northwest	Elij. Mason	D. D. Donnell	--	--	28	36	2.7
d/ 4	26 miles northwest	David Wilson	A. J. Pairier	Adair & Daniels	1930	4,537	--	--
5	25½ miles northwest	W. H. Davis	J. C. Bruner	--	--	17	36	1.9
6	25 miles northwest	do.	J. H. Johnson Estate	--	1918	27	48	3.2
d/ 7	27 miles northwest	--	Will Hale	Hall & Cardin	1904	1,400	6	3
8	25½ miles northwest	F. Morgan	J. F. Hammond	J. F. Hammond	--	21	--	3.1
9	23½ miles northwest	James Reid	W. W. Holland	--	--	29	36	2
10	22 miles northwest	John Williams	D. Kensall	L. K. Kensall	--	26	36	3
11	22½ miles northwest	D. Hill	Jordan Smith	--	--	25	36	2.6
12	20 miles northwest	R. L. Howell	Jim Hammonds	--	--	17	36	2
13	19½ miles northwest	Henderson Cozart	J. L. Booty, et al.	J. L. Gibson	--	58	36	3
14	18½ miles northwest	E. B. Ragsdale	J. R. Thomas	J. R. Thomas	--	22	36	2.6
d/ 15	20 miles northwest	M. Jackson	J. H. Martin	J. H. Martin	1933	9	--	2
16	do.	Marshall University	A. J. Smith	A. J. Smith	1935	13	36	2.7
d/ 17	18½ miles northwest	S. Graves	M. Middlebrock Estate	--	1900	43	42	3
19	15½ miles northwest	D. Martin	Henry Dowell	--	--	33	36	2.8
22	13 miles northwest	J. Jeffreys	Joe Meyers	--	--	35	--	2.4
23	14 miles northwest	J. C. Robertson	S. H. Lucas	S. H. Lucas	--	31	36	2.6
24	16 miles northwest	A. G. Hale	T. N. Jones	--	--	42	36	2.3
d/ 25	17 miles northwest	J. B. Thacker	C. H. Hamman	--	1925	23	--	3
26	16 miles northwest	James H. Sanders	C. Yarbrough	--	--	24	36	6
27	18 miles northwest	D. Brown	I. G. Stone	--	--	53	--	2.5

a/ Measuring point was usually top of well curb, top of casing, or top of pump base.

b/ A, air lift; B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; S, steam; T, turbine; W, windmill; number indicates horsepower.

Records obtained by W. M. Lyle, Project Superintendent
(Chemical analyses of water from these wells and springs are in the table of analyses.)

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topo-graphic situa-tion	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
1	17.1	Sept. 29, 1936	B, H	--	Hilltop	Wood curb; brick casing.
2	23.4	do.	B, H	D	do.	Concrete curb; no casing. Tenant reported water level lowest since 1933.
3	29.2	do.	B, H	D, S	do.	Wood curb; tile casing. Owner reported log; white sand, 0-3 feet; red sand, 3-27 feet;
4	--	--	--	--	--	Drilled well. white sand, 27-30 feet. Oil test. See log.
5	14.8	Sept. 29, 1936	B, H	D, S	Level	Vitrified tile curb and casing.
6	26.2	do.	B, H	D, S	--	No casing.
7	Flows	do.	None	--	Hilltop	Drilled well. Steel curb and casing. Estimated flow, 2 gallons a minute. Neighbor reported water at 280 feet. Located in Van
8	20.6	Oct. 2, 1936	B, H	D, S	Hillside	Wood curb. Zandt County.
9	25.9	do.	B, H	D, S	do.	No casing.
10	24.8	do.	B, H	D, S	do.	Wood casing.
11	17.1	do.	B, H	D, S	do.	Concrete casing.
12	16	do.	B, H	D, S	do.	Wood casing.
13	54.7	do.	B, H	D, S	do.	No casing.
14	22.4	do.	B, H	D, S	do.	Do.
15	6.7	Oct. 9, 1936	B, H	D, S	do.	Wood curb. Owner reported original depth of well was 17 feet. Water reported hard.
16	12.3	Oct. 7, 1936	B, H	D, S	Hilltop	Wood curb; no casing.
17	31.8	Oct. 6, 1936	B, H	D, S	do.	Wood curb; no casing. Neighbor reported never fails in drought.
19	30.5	do.	B, H	D, S	Hillside	Brick curb; no casing.
22	34.4	do.	B, H	D, S	do.	Rock curb; concrete casing.
23	22.5	Oct. 2, 1936	B, H	D, S	do.	No casing.
24	37.5	do.	B, H	D, S	do.	Do.
25	23.9	Oct. 9, 1936	B, H	D, S	Hilltop	Wood curb; no casing.
26	26.1	do.	B, H	D, S	--	Wood and brick curb; no casing.
27	52.4	Oct. 10, 1936	B, H	--	Hillside	Wood curb; no casing.

c/ D, domestic; Ind, industrial; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measurement point above ground (ft.) <u>a/</u>
28	17 miles northwest	Z. Ellison	I. J. Hall	--	1860	31	36	4.1
d/ 29	16½ miles northwest	M. V. Loot	John R. Bowdoin	Deer Rock Oil Co.	1930	4,220	--	--
30	18½ miles northwest	James Barch	O. E. Kimberly	--	--	40	36	2.8
31	do.	Peter Swanson	Josie Flewellen	--	1900	30	36	3.4
d/ 32	20½ miles northwest	James S. Merchant	R. R. Rucker	--	--	23	--	2.5
34	21 miles northwest	Val. Burch	P. V. Smith	P. V. Smith	1936	435	6	2.9
d/ 36	do.	--	Markham Landrum	Markham Landrum	1932	--	6	--
37	15½ miles northwest	R. Bean	State Highway Dept.	-- Oil Co.	1935	80	4	0
38	15 miles northwest	do.	J. A. Smith	--	--	40	36	3.2
39	11½ miles northwest	Thomas Spell	G. T. Tucker	--	--	31	36	3
40	12½ miles northwest	K. H. Latham	Hiram McArthur	--	--	24	36	2.5
41	11 miles northwest	Lindsey Mann	W. R. Castle	W. R. Castle	--	20	36	1.5
42	10 miles northwest	J. H. Pugh	W. F. Washburn	W. F. Washburn	--	24	36	2.8
43	10½ miles northwest	E. W. Dillard	Claude W. Pittman	--	1929	21	36	4.7
45	11½ miles northwest	J. H. Sanders	Mrs. J. H. Jarman	Luby Hall	--	24	36	2.6
46	12 miles northwest	do.	S. Bailey	S. Bailey	--	32	36	2.4
47	12½ miles northwest	do.	do.	--	1896	41	36	3
48	13½ miles northwest	do.	City of Lindale	--	1932	33	132	0.2
49	do.	N. J. Pallel	Star Cannery	--	--	20	84	0.8
50	14 miles northwest	S. Stivers	C. S. Flewellen	Lem Pool	1896	33	36	3
51	15 miles north	F. M. Taylor	J. C. McGill	J. C. McGill	1927	18	36	2.8
53	16½ miles north	George Taylor	P. A. Turner	--	--	33	48	4.2
54	17½ miles north	do.	C. D. Coe	-- Oil Co.	1930	2,000	6	--
55	16 miles north	W. M. Wooten	S. J. Tucker	--	--	15	36	2.6

No.	Water Level		Pump and power b/	Use of water c/	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
28	34.7	Oct. 10, 1936	--	--	Hilltop	Wood curb.
29	--	--	None	N	--	Drilled well. Oil test. See log.
30	32.5	Oct. 10, 1936	B, H	--	Hillside	Wood curb; no casing. Tenant reported never fails in drought.
31	29	Sept. 29, 1936	B, H	D, S	do.	Wood curb. Tenant reported never fails in drought.
32	19.6	Oct. 10, 1936	B, H	D, S	--	Wood curb. Owner reported never fails in drought.
34	Flows	Sept. 29, 1936	B, H	--	Hillside	Drilled well. Steel curb and casing. Estimated flow, 10 gallons a minute. Tenant reported water in sands, 250-300 feet and
36	Flows	do.	None	N	Valley	Drilled 380-435 feet. Temperature 62 $\frac{1}{2}$ ° F. well. Steel curb and casing. Estimated flow, 70 gallons a minute. Located in Wood
37	Flows	do.	None	--	do.	Drilled well. Steel curb and cas- County. ing. Estimated flow, 2 gallons a minute.
38	41	do.	B, H	D	Hilltop	Wood curb; no casing.
39	30	Oct. 2, 1936	B, H	D, S	Hillside	Wood casing.
40	16	do.	B, H	D, S	Hilltop	Wood curb; no casing.
41	18.7	do.	B, H	D, S	do.	No casing.
42	20.4	do.	B, H	D, S	do.	
43	15.7	July 30, 1936	B, H	D, S	Hillside	Brick curb; no casing. Tenant reported strong supply.
45	20.8	do.	B, H	D, S	do.	Wood curb and casing.
46	30.4	do.	B, H	D, S	Hilltop	Wood curb; brick casing. Tenant reported strong supply.
47	34.5	do.	B, H	D	do.	Concrete curb; brick casing.
48	24	do.	Cf, E, -	P	do.	Steel curb; concrete and steel casing. Mayor of Lindale reported 13 feet of water
49	13.6	do.	C, S, -	Ind.	Hillside	Wood curb; brick casing. sand.
50	31	Sept. 28, 1936	B, H	D, S	--	Wood curb; no casing.
51	18.9	do.	B, H	D, S	Hillside	Wood curb; brick casing.
53	36.3	do.	B, H	D	--	Concrete curb; 10 feet wood casing at top.
54	Flows	do.	None	S	--	Drilled well. No casing. Estimated flow, 10 gallons a minute.
55	11	do.	B, H	D, S	Hilltop	Wood casing.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
d/ 59	12 miles north	M. de los A. Carmona	C. M. Martin	--	1935	30	36	--
60	12 $\frac{1}{2}$ miles north	do.	Mrs. J. D. Hicks	--	1932	15	48	2.2
62	12 miles north	do.	C. E. Hicks	Bas Human	1846	23	36	2.1
d/ 63	11 $\frac{1}{2}$ miles north	do.	J. W. McDowell	--	--	20	--	2.3
64	10 miles north	do.	J. F. Woods	J. Goodman	1895	27	--	3
d/ 65	7 miles north	J. Gimble	R. E. Gibson	--	1928	39	36	3
66	7 $\frac{1}{2}$ miles north	F. Flores	J. C. Brown Estate	J. C. Brown	--	7	36	1.8
67	do.	do.	Smith County	--	--	80	3	0.5
68	8 miles north	do.	do.	--	--	--	3	1
69	9 miles north	do.	Texas State Parks Board	--	1935	160	6	--
70	do.	do.	A. R. Krauss	-- Porter	1936	32	36	3
71	9 $\frac{1}{2}$ miles north	do.	J. P. Pitt	--	1906	19	60	2.8
72	11 miles north	Maria G. Estrada	A. B. Fitt	Oscar S. Hill	1906	24	36	2.3
73	12 miles north	do.	J. D. Campbell	--	1906	40	36	2.7
74	13 miles north	C. Secrest	G. W. Mason Estate	--	1910	19	36	2.4
75	do.	D. White	L. R. Curry Estate	--	1930	30	36	2.5
d/ 76	14 miles north	I. Brock	P. L. White	--	--	52	36	3.2
d/ 77	13 miles north	M. Lesseter	G. Tolbert	--	1900	12	36	3
78	13 $\frac{1}{2}$ miles north	G. W. Welsh	H.H. Chambers Estate	--	--	40	46	3.2
79	15 miles north	Juan Santos	Mose Davis	Madge Pullum	1906	30	--	3
80	12 $\frac{1}{2}$ miles northeast	T. King	J. Walker	--	1934	--	--	--
81	11 $\frac{1}{2}$ miles north	C. Green	J. Tolbert	--	1900	30	36	2.6
83	10 $\frac{1}{2}$ miles northeast	J. Hope	W. P. Allen	--	--	11	48	2.4
84	8 $\frac{1}{2}$ miles northeast	W. Oliphant	W.E. Harrison Estate	--	--	26	46	3.5

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
59	--	Oct. 10, 1936	B, H	S	--	No casing. Owner reported water unfit for domestic use.
60	17	Sept. 28, 1936	B, H	D, S	Hillside	Wood curb; rock casing.
62	22.4	do.	B, H	D, S	do.	Brick curb; no casing.
63	19.8	Oct. 9, 1936	B, H	--	do.	Concrete curb.
64	25.9	Oct. 10, 1936	B, H	D, S	Hilltop	Wood curb. Owner reported supply increased in 1930 by dynamiting.
65	37.2	Oct. 9, 1936	B, H	D, S	--	Wood curb; no casing.
66	8.2	July 28, 1936	B, H	N	Hillside	Do.
67	Flows	Oct. 10, 1936	None	N	Valley	Drilled well. Steel curb and casing. Estimated flow, 25 gallons a minute. Water reported in sand at 80 feet. Temperature 64°F.
68	Flows	do.	None	N	do.	Drilled well. Steel curb and casing. Estimated flow, 25 gallons a minute.
69	50	June 1935 e/	A, G, -	P	Hilltop	Drilled well. Supplies C. C. C. Camp. See log.
70	31.6	July 28, 1936	B, H	D	do.	Wood curb; concrete casing.
71	16.3	do.	B, H	D, S	Hillside	Wood curb; 8 feet rock casing at top. Owner reported never fails in drought.
72	21.6	Sept. 29, 1936	B, H	D, S	Hilltop	Wood curb; no casing.
73	22.4	Oct. 9, 1936	B, H	D, S	--	Brick curb; no casing.
74	15.6	Sept. 28, 1936	B, H	D, S	Hillside	Wood curb.
75	29.9	do.	B, H	D, S	Hilltop	Brick curb and casing.
76	51.9	Oct. 8, 1936	B, H & C, W	--	--	Wood curb; no casing.
77	12.9	do.	B, H	--	--	Do.
78	40.5	do.	B, H	--	Hilltop	Do.
79	32.8	do.	B, H	--	do.	Wood curb; no casing. Owner reported weak supply.
80	Flows	do.	--	--	--	Drilled well. Steel casing. Estimated flow, 1 gallon a minute. Temperature 84°F.
81	23.8	do.	B, H	--	Hillside	Wood curb.
83	11.9	do.	B, H	--	--	Brick curb; rock casing.
84	28.6	do.	B, H	D, S	--	Wood curb.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
86	13 miles northeast	E. Newberry	Dr. J. T. Browning	--	1936	32	36	3.5
88	18 miles northeast	T. G. Box	G. B. Buchanan	Lon Young	1920	40	36	2.7
89	17½ miles northeast	M. Wilson	Dr. J. T. Browning	--	Old	33	36	3.7
90	16½ miles northeast	T. S. Hinds	J. L. McNutt	Sam Young	1916	60	36	2.3
91	15½ miles northeast	G. M. Nichols	W. E. Burge	W. E. Burge	1930	24	36	6
d/ 92	14 miles northeast	R. Wells	Lee Tucker	--	--	--	3	0.5
93	13½ miles northeast	B. H. H. Butts	L. A. Chapman	Cecil Crews	1934	17	36	3.7
95	12½ miles northeast	J. Lagrone	Morgan Freeman	Morgan Freeman	1914	38	36	2.4
96	15 miles northeast	B. H. H. Butts	J. E. Farmer	--	1836	24	36	3
98	18 miles northeast	O. Hawkins	John Hampton	Frank Sheffield	1931	30	36	2.8
100	18½ miles northeast	do.	J. R. Garner	--	1920	16	36	2.8
101	19½ miles east	do.	Joy School Dist. #29	J. H. Cannon	1926	20	36	3
102	21 miles northeast	W. W. Avery	Mrs. R. E. McVay	--	1870	26	36	3.3
103	22 miles northeast	do.	Moses Wood	Floyd Smith	1935	21	36	3.6
104	19 miles northeast	Samuel Epps	M. Sea	--	1900	19	36	2.8
105	19½ miles northeast	do.	Winona State Bank	--	1906	44	36	3.2
106	do.	do.	Yancy Miller, et al.	--	--	40	36	2.8
d/107	19 miles northeast	do.	M. Starnes	Owen-Sloan Oil Co.	1931	4,139	--	--
108	18½ miles northeast	do.	do.	--	1920	28	36	3.7
110	do.	J. M. Farchmann	do.	M. Starnes	--	32	36	2.7
111	18½ miles east	G. W. Slaughter	W. R. Fincher	S. F. Meritt	--	39	36	3.4
112	19½ miles east	J. W. Bell	C. W. Brown	--	1900	26	36	3
113	19 miles east	S. Wilson	J. A. Munaphrey	--	--	17	36	2.6
115	18 miles east	Barnes Clark	Mrs. L. B. Florence	Charles Hicks	1931	21	36	2

^{a/} Measuring point was usually top of well curb, top of casing, or top of pump base.

^{b/} A, air lift; B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; S, steam; T, turbine; W, windmill; number indicates horsepower.

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
86	23	Sept. 1, 1936	B,H	D,S	Hillside	Wood curb. See log.
88	39.6	do.	B,H	D,S	Hilltop	Wood curb.
89	34.5	do.	B,H	D	Hillside	Wood curb; brick casing. Tenant reported weak supply.
90	60	do.	B,H	D,S	do.	Wood curb.
91	22.4	do.	B,H	D,S	--	Wood curb; 5 feet brick casing at top.
92	Flows	Oct. 10, 1936	None	N	--	Drilled well. Steel curb and casing. Estimated flow, 3 gallons a minute.
93	17.4	Sept. 1, 1936	B,H	D,S	Hillside	Wood curb.
95	38.7	do.	B,H	D,S	Hilltop	Wood curb; no casing. Owner reported never fails in drought.
96	20.1	Sept. 14, 1936	B,H	D,S	Hillside	Wood curb; no casing.
98	30.7	Sept. 3, 1936	B,H	D,S	do.	Do.
100	16.7	do.	B,H	D,S	Hilltop	Wood curb.
101	18.5	Aug. 11, 1936	B,H	D,P	--	Wood curb; 6 feet brick casing at top. U. S. G. S. B. M. 50 feet west.
102	26.1	Sept. 3, 1936	B,H	D	Hilltop	Wood curb.
103	18.9	do.	B,H	D,S	Hillside	Rock curb; no casing. Tenant reported never fails in drought.
104	--	do.	B,H	D,S	Hilltop	Wood curb; no casing.
105	41.3	do.	B,H	D	do.	Do.
106	39.7	do.	B,H	D,S	do.	Wood curb and casing.
107	--	--	None	N	--	Drilled well. Oil test. See log.
108	29.2	Sept. 1, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
110	27.7	Sept. 4, 1936	B,H	D,S	do.	Wood curb.
111	22.3	Aug. 11, 1936	B,H	D,S	do.	Wood curb; no casing. Owner reported never fails in drought.
112	25.3	do.	B,H	D	do.	Wood curb; no casing.
113	18.7	do.	B,H	D	Hillside	Wood curb; no casing. Tenant reported weak supply in dry season.
115	19.7	do.	C,C, $\frac{1}{2}$	D	do.	Wood curb; no casing. Owner reported weak supply in dry season.

c/ D, domestic; Ind., industrial; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) $\frac{e}{f}$
d/117	17 $\frac{1}{2}$ miles east	Barnes Clark	Hamp Florence	Ruffin Kilgore Oil Co.	1931	4,025	10	--
118	15 $\frac{1}{2}$ miles east	Henry C. Cook	I. Roy	--	1910	39	36	5.8
119	19 $\frac{1}{2}$ miles east	M. Hughes	Myrtle Padgett	--	--	30	36	--
120	17 $\frac{1}{2}$ miles east	F. Emma	Mary Brown	--	--	42	36	2.4
121	do.	D. McInnis	J.B. Chambers Estate	--	1881	64	36	3
122	16 $\frac{1}{2}$ miles southeast	C. A. Sewell	W. C. Lacy	--	1936	15	36	2.9
123	16 $\frac{1}{2}$ miles east	W. L. Robinson	Mrs. E. R. Bateman	W. D. Bateman	1876	45	36	3.8
124	15 miles east	John Pate	G. T. Hill	George W. Hill	1851	45	36	2.5
125	14 $\frac{1}{2}$ miles southeast	T. C. Williams	Frank & Earle Baird	--	1925	24	36	5.7
126	13 $\frac{1}{2}$ miles southeast	do.	G. E. Boulter	Pete Carpenter	1933	27	36	2.6
127	13 miles east	W. Manier	J. L. Smith	--	1921	33	36	2.1
128	12 miles east	L. H. Dillard	E. Williams	Clarence Tucker	1930	23	36	3.9
d/129	11 miles east	J. Dillard	H. Rayford	Hunt Production Co.	1934	4,054	7	--
130	13 $\frac{1}{2}$ miles east	E. N. Barbee	Mrs. Liza Spencer	--	1931	14	36	2.7
131	16 miles east	Calloway Dean	A. S. Butler	Hosey Wilkes	1933	17	36	2.8
132	15 $\frac{1}{2}$ miles east	do.	J. C. Smith	--	1906	34	42	5.3
133	17 miles northeast	do.	Mrs. George Chapman	--	--	22	36	2.7
134	15 $\frac{1}{2}$ miles northeast	do.	W. M. Barber	--	1907	24	36	3
d/135	14 miles northeast	J. C. Hill	S. W. Gary	Mac-Tex Producing Co.	1922	2,184	--	--
136	13 $\frac{1}{2}$ miles northeast	do.	do.	--	--	28	36	2.7
138	11 $\frac{1}{2}$ miles northeast	W. W. Hanks	R. H. C. Buttler	--	1935	27	36	2.9
140	11 $\frac{1}{2}$ miles east	L. Hands	Sallie Walton	--	1927	28	36	2.9
141	12 $\frac{1}{2}$ miles east	F. Ariola	R. L. Johnson	Wash Browning	--	42	36	2.7
142	11 miles east	W. J. Parchman	Walter Jernigan	--	--	47	36	2.7

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
117	--	--	None	N	--	Drilled well. Oil test. See log.
118	41.1	Sept. 11, 1936	B, H	D, S	Hillside	Wood curb; no casing.
119	--	Sept. 22, 1936	C, E, $\frac{1}{2}$	D	Hilltop	Steel casing.
120	42	Sept. 28, 1936	B, H	D, S	--	Wood curb; no casing.
121	63.8	Sept. 22, 1936	B, H	D, S	Hilltop	Wood curb; 12 feet concrete casing at top. Owner reported strong supply.
122	12.6	do.	B, H	D, S	--	Wood curb.
123	44.6	do.	B, H	D, S	Hilltop	Wood curb. Owner reported never fails in drought.
124	38.9	do.	B, H	D, S	Hillside	Concrete curb and casing. Owner reported never fails in drought.
125	20.9	Aug. 5, 1936	B, H	D, S	do.	Brick curb; no casing.
126	29	Aug. 21, 1936	B, H	D	Hilltop	Wood curb; 10 feet concrete casing at top. Tenant reported weak supply.
127	32.3	Sept. 22, 1936	B, H	D, S	Hillside	Wood curb.
128	23.5	Sept. 10, 1936	B, H	D, S	--	Wood curb; no casing.
129	--	--	None	N	--	Drilled well. Oil test. See log.
130	14.9	Sept. 11, 1936	B, H	D, S	Hillside	Brick curb; no casing.
131	16.8	Aug. 11, 1936	B, H	D, S	Hilltop	Wood curb; no casing.
132	34.6	do.	B, H	D, S	do.	Do.
133	22.3	do.	B, H	D	Hillside	Do.
134	21.1	do.	B, H	D, S	Hilltop	Do.
135	--	--	None	N	--	Drilled well. Oil test. See log.
136	27.9	Sept. 3, 1936	B, H	D, S	--	Wood curb; 5 feet concrete casing at top.
138	27	Sept. 1, 1936	B, H	D, S	Hillside	Wood curb; no casing.
140	27.7	Sept. 3, 1936	B, H	D, S	do.	Wood curb.
141	40.9	Sept. 11, 1936	B, H	D, S	Hilltop	Wood curb; no casing.
142	46.2	Sept. 9, 1936	B, H	D, S	Hillside	Wood curb.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
143	10½ miles east	J. Brewer	Rose Warren	E. Warren	1930	45	36	3.4
144	10 miles east	R. W. Berry	Mrs. G. W. Ward	--	1916	20	36	3
145	10½ miles southeast	R. W. Andrews	-- Emmett	--	--	21	36	2.4
148	11 miles southeast	M. Colwell	A. T. Andrews	--	1933	58	36	3.9
d/150	9½ miles southeast	--	Jim Bryant	--	--	50	36	3.5
151	do.	John F. Jordan	W. W. Taylor	--	1910	18	36	2.2
152	9 miles southeast	--	-- Gilley	--	1906	34	36	1.9
153	8½ miles southeast	-- Fosque	Clarence Brown	Ezra Scott	1911	27	36	3.2
154	7 miles southeast	T. M. Draper	George R. Phillips	--	--	11	36	5
155	do.	Ed. W. Smith	J. H. James	George Osborn and Tom Craft	1933	33	36	2.5
156	8½ miles east	B. C. Walters	Mrs. W. C. Brooks	--	--	20	36	2.9
159	7½ miles east	Isaac Renfro	Full Choice	--	--	27	36	2.9
160	6½ miles east	--	Smith County	--	--	Spring	--	--
161	5½ miles east	T. Lowrey	T. J. Epperson	-- Oil Co.	1934	45	3	0
162	do.	do.	do.	Arch Pruitt	1922	30	36	2.8
163	6 miles east	S. Gage	W. S. Wright	--	1933	96	2	0.5
167	8½ miles northeast	L. S. Linn	Charles Garner	--	1936	23	36	3.5
168	6½ miles northeast	James Jacobs	Miss W. Rowell	-- Driscoll	1886	25	36	2.8
169	6 miles northeast	John Lane	M. S. Shamburger	M. S. Shamburger	--	16	30	2.3
d/170	3½ miles northeast	Thos. Pugh	P. T. Burns	D. W. Kerr	1935	640	8	--
171	3½ miles northeast	-- Goodman	Pat Torrens	Pat Torrens	1928	23	36	3
172	do.	B. Herring	do.	do.	1902	42	36	3
d/173	3 miles northeast	do.	H. E. Lassiter	Humble Oil & Ref. Co.	1928	905	9¼	--
175	4 miles east	E. McClure	L. P. Melton	L. P. Melton	1934	15	42	3

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topo-graphic situa-tion	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
143	44.6	Sept. 9, 1936	B,H	D,S	Hilltop	No casing.
144	20.3	Sept.10, 1936	B,H	D,S	Hillside	Wood curb; no casing. Owner reported never fails in drought.
145	17.8	Aug. 5, 1936	B,H	D	do.	Wood curb; no casing.
148	56.2	Sept.22, 1936	B,H	D,S	Level	Wood curb; concrete casing.
150	49	do.	B,H	D,S	Hillside	Wood curb.
151	16.8	Aug.12, 1936	B,H	D,S	do.	Wood curb; no casing.
152	32.4	do.	B,H	D,S	Hilltop	Do.
153	21.6	do.	B,H	D,S	do.	Wood curb; brick and wood casing.
154	15.8	Sept.18, 1936	B,H	D,S	Hillside	Wood curb; no casing.
155	35.4	Aug. 5, 1936	B,H	D	do.	Wood curb; brick casing.
156	18.2	Sept.11, 1936	B,H	D	do.	Wood curb.
159	30.3	Sept. 8, 1936	B,H	D,S	do.	Wood curb; 10 feet wood casing at top.
160	Flows	Sept.11, 1936	None	--	Valley	Estimated flow, 5 gallons a minute from 1. opening in red sandstone.
161	Flows	July 6, 1936	None	S	do.	Drilled well. Steel curb and casing. Esti- mated flow, 10 gallons a minute.
162	29.7	July 3, 1936	B,H	D,S	Hilltop	Wood curb; 7 feet brick casing at top.
163	--	July 7, 1936	C,G, 1 1/2	D,S	do.	Drilled well. Steel casing.
167	26.5	Sept.14, 1936	B,H	D	do.	Wood curb; 10 feet wood casing at top.
168	26.6	do.	B,H	D,S	do.	Wood curb; no casing.
169	12.1	July 28, 1936	B,H	D	do.	Wood curb; brick casing.
170	80	June 1935 e/	T,E,-	--	--	Drilled well. Estimated yield, 300 gallons a minute for 32 hours. Water reported in
171	18.6	July 7, 1936	B,H	D	Hillside	Concrete and brick sand, 500-610 feet. curb; brick casing.
172	39.4	do.	B,H	N	Hilltop	Concrete curb and casing.
173	--	--	None	N	--	Drilled well. Oil test. See log.
175	9.2	July 6, 1936	B,H	D	Hillside	Wood curb; no casing.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
176	3 $\frac{1}{2}$ miles east	A. D. Keller	A. M. Maines	--	--	57	36	2.9
177	4 $\frac{1}{4}$ miles east	Wm. Hill	Robert Belcher	Ed Creamer	1925	39	36	2.5
178	3 $\frac{1}{4}$ miles east	P. Chirino	Anna Collins	J. H. Collins	1924	10	36	1
d/179	2 $\frac{3}{4}$ miles east	do.	-- Boone	-- Boone	1935	550	6	1
180	2 $\frac{1}{2}$ miles east	A. Lowrance	P. J. Daniels	--	1933	--	36	--
181	do.	P. Chirino	Andy Anderson	--	1935	29	42	3.2
184	3 $\frac{3}{4}$ miles southeast	M. Spell	B. C. Miller	Brad McCoy	1934	35	36	2
185	2 $\frac{3}{4}$ miles southeast	C. Anderson	James Williams	Isom Williams	1929	15	36	3.2
187	5 miles southeast	--	Mattie Woodley	--	--	24	36	2.2
188	5 $\frac{1}{2}$ miles southeast	C. Dean	O. B. Funderburgh	--	1930	17	36	8.4
189	6 miles southeast	L. McClure	O. D. Funderburgh	W. B. Funderburgh	1872	29	36	8.0
190	7 $\frac{1}{2}$ miles southeast	W. C. Collins	Mrs. J. T. Dickson	--	1932	31	36	5.1
191	7 miles southeast	L. Reuter	do.	Dan Anderson	1933	27	36	4.4
193	5 $\frac{1}{2}$ miles south	Marshall University	Goldstein & Brown	--	--	53	36	2.6
194	6 $\frac{1}{2}$ miles south	R. Toombs	W. C. Armstrong	--	1925	34	36	2.7
d/195	6 miles south	Marshall University	Marsh & McIlwaine	Elkton Oil Co.	1921	2,475	8 $\frac{1}{2}$	--
196	5 $\frac{1}{2}$ miles southeast	do.	Lon W. Stanley	--	--	16	36	2
197	4 $\frac{1}{4}$ miles south	M. M. Long	Mrs. W. I. Sloan	-- McCoy	1925	14	36	2.7
198	2 miles south	A. Neighbors	H. E. McCoy	-- Register	1917	23	36	2.6
205	1 $\frac{1}{4}$ miles east	--	Sam Greenburg	--	1916	20	36	4.5
207	2 $\frac{3}{4}$ mile northeast	I. Lollar	Frank Riviere	--	1910	58	36	2.4
d/208	1 mile northeast	J. Jones	-- Boyett	--	--	Spring	--	--
209	2 $\frac{1}{4}$ miles northeast	--	C. M. Owens	--	--	26	36	3.6
211	2 $\frac{3}{4}$ miles north	E. N. Stringer	D. K. Caldwell	--	1896	48	36	3.9

a/ Measuring point was usually top of well curb, top of casing, or top of pump base.

b/ A, air lift; B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; S, steam; T, turbine; W, windmill; number indicates horsepower.

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topo-graphic situation	Remarks
	Depth below measur- measur- ing point (feet)	Date of measure- ment				
176	42.5	July 7, 1936	B,H	D	Hillside	Concrete curb and casing. Owner reported never fails in drought.
177	18	July 2, 1936	B,H	D,S	do.	Brick curb; no casing.
178	4.2	do.	B,H	D	do.	Concrete curb; no casing.
179	--	Oct.10, 1936	C,W	N	Hilltop	Drilled well. Steel curb and casing.
180	18	do.	C,E,-	D,S	do.	Steel casing.
181	26.4	July 1, 1936	B,H	D,S	Hillside	Wood curb; no casing.
184	36	Aug. 5, 1936	B,H	D	do.	No casing.
185	14.7	July 6, 1936	B,H	D	--	Wood curb.
187	11.7	Aug. 7, 1936	B,H	D	Hilltop	Brick curb and casing.
188	17.5	July 6, 1936	B,H	D,S	Hillside	Do.
189	28.8	do.	B,H	D,S	Hilltop	Wood curb; no casing.
190	20.6	Aug.11, 1936	B,H	D	--	Wood curb; brick casing.
191	21.8	Aug.10, 1936	B,H	D	Hillside	Brick curb and casing.
193	53.5	Aug.30, 1936	B,H	D,S	do.	Wood curb; brick casing.
194	34.9	Aug.29, 1936	B,H	D,S	do.	Concrete curb and casing.
195	--	--	None	N	--	Drilled well. Oil test. See log.
196	2	Sept.16, 1936	None	D,S	Hillside	Concrete curb and casing.
197	13.2	Aug.30, 1936	B,H	D,S	Level	Wood curb; no casing.
198	20.5	July 6, 1936	B,H	D	Hillside	Wood curb.
205	18.3	July 3, 1936	None	N	do.	Wood curb; concrete casing.
207	50.4	July 8, 1936	B,H	D	Hilltop	Wood curb and casing.
208	Flows	July 3, 1936	None	D	Valley	Estimated flow, 10 gallons a minute from 1 opening in sandstone.
209	24.5	July 7, 1936	B,H	D	Hillside	Wood curb.
211	41.8	July 8, 1936	B,H	D	do.	Wood curb; no casing.

c/ D, domestic; Ind, industrial; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
212	3 $\frac{1}{4}$ miles north	R. Toombs	L. E. Star	A. Mayfield	1935	27	36	2
214	4 miles north	George Smith	R. M. Hudnall	R. M. Hudnall	1895	47	36	0.5
215	5 $\frac{1}{2}$ miles north	J. M. Logan	Shady Grove School Dist.	Sam Miller	--	49	36	0.3
217	4 $\frac{1}{2}$ miles north	R. G. Saunders	J. M. Holt	J. M. Holt	1900	61	36	3.2
218	4 $\frac{3}{4}$ miles north	W. P. Stapp	W. E. Holder	W. E. Holder, Jr.	1917	32	36	1.6
d/219	do.	do.	do.	--	1890	35	36	3
220	4 miles north	Thos. Burbridge	Jones Valley School Dist.	--	1934	56	36	2.8
221	6 miles northwest	Hy. Mickleborough	Mrs. N. A. Roberts	--	1921	11	36	2.5
222	4 miles northwest	H. George	McAtea & Dr. Brokaw	--	Old	12	36	3
223	2 $\frac{1}{2}$ miles northwest	do.	J. B. Mayfield	--	1935	60	36	2.6
224	2 miles north	F. G. Bodenhammer	Francis Stokes	--	1910	18	36	2.8
228	2 $\frac{1}{4}$ miles northwest	V. Jergen	Alec Woldert	--	1920	96	36	2.3
230	$\frac{1}{2}$ mile north	J. Lollar	Roy Stevens	Roy Stevens	1932	24	36	1.7
232	1 $\frac{1}{2}$ miles west	J. Gilbert	J. L. Browning	--	1900	40	36	2.8
234	2 miles west	A. Loverly	Willow Brook Country Club	Layne-Texas Co.	1934	827	6	0.5
236	1 $\frac{3}{4}$ miles west	John A. Burrus	H. S. Reynolds	H. S. Reynolds	--	21	36	4.5
237	2 miles west	do.	B. C. Dike	--	1936	64	36	1.1
241	2 $\frac{3}{4}$ miles southwest	George Myers	Mollie Porter Estate	Will McKinney	1923	--	36	0
243	3 miles west	--	Joe Porter	Joe Porter	1916	34	36	2.6
245	3 $\frac{1}{4}$ miles west	George Myers	-- Chitwood	--	--	32	24	3
247	3 $\frac{3}{4}$ miles west	do.	G. E. Steel	G. E. Steel	1935	30	36	2.6
249	4 $\frac{1}{4}$ miles west	do.	Mittie Davenport	--	--	Spring	--	--
250	do.	do.	Mrs. Oscar McFarland	Frank Jones	1917	41	60	4.4
251	do.	do.	Earle Scroggins	--	--	Spring	--	--

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
212	23.1	July 28, 1936	B,H	D,S	Hillside	Concrete curb; 6 feet tile casing at top. See log.
214	42.4	do.	B,H	D,S	Hilltop	Concrete curb and casing.
215	46.4	do.	B,H	D,S	Hillside	Brick curb and casing.
217	51.7	July 8, 1936	B,H	D	do.	Wood curb; no casing.
218	29.7	do.	B,H	D,S	Hilltop	Concrete curb; no casing.
219	--	do.	None	N	do.	Wood curb; no casing. Owner reported water unfit for domestic use.
220	58.9	do.	B,H	D	do.	Wood curb and casing.
221	9.9	July 9, 1936	B,H	D	Hillside	Brick curb and casing.
222	12.4	July 17, 1936	B,H	D,S	do.	Wood curb; no casing.
223	34.4	July 9, 1936	B,H	D	do.	Brick curb and casing.
224	17.1	July 8, 1936	B,H	D,S	do.	Wood curb; no casing.
228	79.8	July 30, 1936	B,H	D	Hilltop	Concrete curb; brick casing.
230	24.3	July 8, 1936	B,H	D	Hillside	Wood curb and casing.
232	30.9	July 9, 1936	B,H	D	Hilltop	Wood curb; concrete casing.
234	Flows	July 31, 1936	T,E, 20	--	do.	Drilled well. Steel casing. Supplies swimming pool. See log.
236	23.7	July 9, 1936	B,H	D,S	Hillside	Brick curb; no casing.
237	50	July 15, 1936	C,E,-	D	do.	Brick curb; steel casing.
241	--	July 31, 1936	B,H	D	Hilltop	Wood casing.
243	35.6	July 14, 1936	B,H	D,S,P	do.	Rock curb; concrete casing. Owner reported never fails in drought.
245	33.1	do.	B,H	D,S	Hillside	Wood curb; brick casing.
247	19.3	July 15, 1936	B,H	D	Hilltop	Brick curb and casing.
249	Flows	July 10, 1936	None	D,S	Hillside	Estimated flow, 20 gallons a minute from 2 openings in sandstone.
250	41.8	July 15, 1936	B,H	D,S	do.	Wood curb; brick casing.
251	Flows	do.	None	--	do.	Estimated flow, 10 gallons a minute from 1 opening.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
252	4 $\frac{1}{4}$ miles west	E. D. Holland	Sid Morris	--	--	45	36	2.6
254	5 $\frac{1}{2}$ miles southwest	T. Largent	C. A. Arnold	C. A. Arnold	Old	24	36	6.3
d/255	do.	--	Cotton Belt R. R. Co.	--	--	Spring	--	--
257	6 $\frac{1}{2}$ miles southwest	Thomas Quevado	Cleveland Crow	Cleveland Crow	1930	48	36	2.4
258	7 $\frac{1}{2}$ miles southwest	do.	E. L. Little	E. L. Little	1926	31	36	3
259	9 miles southwest	do.	Gus Taylor	--	--	14	36	2.6
260	10 miles southwest	do.	R. M. McCray	--	1906	23	36	2.8
261	10 $\frac{1}{2}$ miles southwest	D. Wilson	Joe Myers	--	--	Spring	--	--
262	10 miles southwest	Thomas Quevado	S. Holmes	--	1901	36	36	2.3
263	9 miles southwest	do.	Howard Byars	W. W. Walton	--	24	36	2.9
264	8 $\frac{1}{2}$ miles west	M. T. Duncan	Nathan Harris	Nathan Harris	1836	29	36	2
265	8 miles west	John Russell	W. F. Hester	-- Venable	1901	40	36	2.1
266	7 $\frac{1}{2}$ miles west	do.	Cecil Hall	--	--	66	36	2.9
267	7 miles west	G. Pettigrew	F. A. Woodward	--	1916	31	36	5.7
268	6 $\frac{1}{2}$ miles west	J. Dean	K. Marmar Estate	--	--	Spring	--	--
269	do.	do.	do.	--	--	46	36	2.6
270	6 miles west	M. G. T. Brown	H. J. Ellis	--	--	29	36	3.2
271	6 $\frac{1}{2}$ miles southwest	H. Teal	J. A. Eyster	-- Hardy	1901	36	36	3
272	6 miles southwest	John Dean	A. L. Thompson	--	--	28	36	5.9
276	4 $\frac{1}{4}$ miles west	George Meyers	W. M. Barber	Sam O. Woodward	1932	39	36	3
277	4 $\frac{1}{2}$ miles west	do.	John Hughes	--	--	Spring	--	--
280	3 $\frac{1}{4}$ miles west	Wm. Archer	A. L. Thompson	--	--	24	36	2.5
281	3 $\frac{1}{2}$ miles west	S. W. Williams	F. F. Thompson	F. F. Thompson	1933	31	36	2.9
282	3 $\frac{3}{4}$ miles northwest	do.	Mrs. Carl McGinney	--	--	49	36	2.9

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
252	46.4	July 15, 1936	B,H	D	Hilltop	Wood curb and casing.
254	27.4	July 16, 1936	B,H	D,S	do.	Concrete curb and casing.
255	Flows	do.	--	N	Railway cut	Estimated flow, 20 gallons a minute from 1 opening in sandstone.
257	29.4	July 15, 1936	B,H	D,S	Valley	Wood curb; concrete casing.
258	29.3	Sept.18, 1936	B,H	D,S	Hilltop	Wood curb; 5 feet rock casing at top.
259	14.8	do.	B,H	N	Hillside	Brick curb and casing.
260	22.6	do.	B,H	D,S	do.	Wood curb; no casing.
261	Flows	Aug.28, 1936	None	D,S	Valley	Estimated flow, 3 gallons a minute from 1 opening.
262	33.9	do.	B,H	D,S	Hillside	Wood curb.
263	25.7	do.	B,H	D,S	do.	Wood curb; no casing.
264	27.4	do.	B,H	D,S	do.	Wood curb; no casing. See log.
265	40	do.	B,H	D,S	do.	Wood curb; no casing.
266	65.6	do.	B,H	D,S	do.	Do.
267	22.1	do.	B,H	D	do.	Wood curb; 15 feet wood casing at top.
268	Flows	Sept.11, 1936	None	S	do.	Estimated flow, 30 gallons a minute from 1 opening in sandstone.
269	44.3	July 15, 1936	B,H	D,S	do.	Wood curb; brick casing. Tenant reported never fails in drought.
270	26.9	Aug.28, 1936	B,H	N	Hilltop	Wood curb; brick casing.
271	29.7	do.	B,H	D,S	do.	Wood curb; no casing.
272	29.5	July 15, 1936	B,H	D,S	Hillside	Wood curb; no casing. Tenant reported never fails in drought.
276	37.8	Aug. 28, 1936	B,H	D	--	No casing.
277	Flows	July 16, 1936	None	D,S	Hillside	Estimated flow, 5 gallons a minute from 2 openings in sand.
280	23.9	Aug.28, 1936	B,H	D,S	do.	Wood curb; vitrified tile casing.
281	19.2	July 10, 1936	B,H	D	Hilltop	Wood curb; no casing.
282	32.5	do.	B,H	D,S	do.	Do.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
285	4 $\frac{1}{4}$ miles northwest	T. A. Garrett	M. E. Williams	--	--	27	--	2.3
284	5 $\frac{1}{2}$ miles west	W. Gordon	Black Fork School Dist.	--	1932	34	36	2.7
285	6 $\frac{1}{2}$ miles northwest	A. G. Walling	Mrs. -- Tunnel	--	--	16	--	3
286	do.	F. Gilkerson	S. V. Staples	--	1896	13	36	3
287	do.	do.	Missouri Pacific R. R. Co.	--	1906	18	48	3.3
d/288	9 miles northwest	J. Maxwell	T. H. Delay	--	1890	22	--	2.6
d/289	7 $\frac{1}{2}$ miles northwest	J. H. McClure	Frank Erwin	Ike Marsh	1898	18	60	2.7
291	8 miles northwest	Lewis Jones	-- Andrews	-- Andrews	1900	41	36	3
d/292	9 miles west	T. R. Phillips	W. Crenshaw	--	--	31	--	3
293	12 miles northwest	P. Maulding	W. W. Cates	--	1900	24	60	2.8
294	9 $\frac{1}{2}$ miles southwest	Thomas Quevado	Judge--Lindsey	--	1930	31	36	4
297	11 miles southwest	do.	S. McMinn Estate	--	1926	16	36	2.7
298	12 miles southwest	do.	G. Knight	G. Knight	1921	16	36	3
300	13 miles southwest	J. Smith	A. D. McMinn	--	--	31	36	3
301	13 $\frac{1}{2}$ miles southwest	do.	do.	--	--	28	36	2.5
302	do.	Thomas Quevado	Joe Meyer	Roy Turner	1920	11	36	3.1
303	14 miles southwest	do.	B. W. Wofford, et al.	--	--	20	36	2.5
d/304	14 $\frac{1}{2}$ miles southwest	do.	Joe Meyer	--	--	528	--	--
306	16 $\frac{1}{2}$ miles southwest	Jose M. Acosta	Hy Lovelace	--	--	27	36	3
307	17 $\frac{1}{2}$ miles southwest	do.	Mrs. M. K. Carter	--	1921	--	12	0.3
d/309	16 miles southwest	P. E. Bean	H. E. Lasseter	W. J. Gregory	1935	33	36	--
310	16 $\frac{1}{2}$ miles southwest	do.	do.	--	--	19	36	2.7
311	do.	do.	Mrs. O. R. Brooks	--	--	Spring	--	--
312	16 miles southwest	do.	do.	--	1906	28	36	2.9

a/ Measuring point was usually top of well curb, top of casing, or top of pump base.

b/ A, air lift; B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; S, steam; T, turbine; W, windmill; number indicates horsepower.

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power	Use of water	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
283	29.1	Oct. 5, 1936	B,H	--	Hilltop	Wood curb.
284	19.8	July 20, 1936	B,H	D	Hillside	Wood curb; concrete casing.
285	10.3	Oct. 5, 1936	B,H	D,S	Valley	Do.
286	--	July 9, 1936	B,H	D,S	--	Wood curb; brick casing.
287	17	do.	B,H	D	Valley	Concrete curb and casing.
288	20.6	Oct. 5, 1936	B,H	D,S	--	Wood curb; no casing.
289	15.4	July 20, 1936	B,H	D	Hillside	Do.
291	24.6	do.	B,H	D,S	do.	Wood curb; brick casing.
292	29.1	Oct. 6, 1936	B,H	D,S	--	Wood curb.
293	21.9	Oct. 8, 1936	B,H	--	Hilltop	Rock curb; no casing.
294	32.4	Sept. 18, 1936	B,H	D,S	do.	Brick curb.
297	17.3	Sept. 5, 1936	B,H	D	Hillside	Wood curb; 2 feet concrete casing at top.
298	9	do.	B,H	D,S	--	Wood curb.
300	25	do.	B,H	D,S	Hillside	Do.
301	26	Sept. 7, 1936	B,H	N	do.	Do.
302	11.3	do.	B,H	D,S	do.	Do.
303	--	do.	B,H	D,S	do.	Wood curb and casing.
304	--	--	--	--	--	Drilled well. See log.
306	20	Sept. 4, 1936	B,H	D,S	Valley	Wood curb.
307	Flows	Sept. 7, 1936	None	N	do.	Drilled well. Steel casing and curb.
309	30	Sept. 4, 1936	B,H	D,S	Hilltop	No casing. Tenant reported water unfit for stock. See log.
310	17.5	do.	B,H	D,S	Hillside	Wood curb.
311	Flows	do.	None	S	do.	Estimated flow, 15 gallons a minute from 1 opening.
312	26.7	do.	B,H	D,S	do.	.

e/ D, domestic; Ind, industrial; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
313	16 miles south	--	H. W. Walker	Negro Slaves	1856	37	36	2.7
314	15 $\frac{1}{2}$ miles south	David Page	C. A. Burks	--	1932	33	36	4.7
315	14 $\frac{1}{2}$ miles south	do.	A. M. Stripling	--	1925	19	36	2.8
316	13 miles south	do.	A. A. Scritchfield	Jim Moseley	1931	17	36	3
317	do.	do.	Mrs. J. B. Rather	--	--	17	36	2.8
318	15 miles south	do.	O. R. Dennis	--	1926	24	36	3
319	15 $\frac{1}{2}$ miles south	do.	R. E. Burkett	--	1932	22	36	3
320	14 miles southwest	Elij. J. DeBard	Joe Meyer	--	--	19	36	2.6
321	12 miles south	do.	J. L. Cope	--	1901	16	36	2.3
322	do.	Thomas Quevado	C. C. Evans	--	1901	26	36	2.5
323	11 miles south	do.	Byron Walker	--	1934	32	36	3
324	10 $\frac{1}{2}$ miles south	do.	City of Flint	--	1913	32	48	2
d/325	do.	do.	A. B. Oglesby	Sun Oil Co.	1933	--	--	--
326	do.	do.	L. A. Alexander	L. A. Alexander	1914	14	36	2.6
327	11 miles south	do.	Reuben Jackson	Reuben Jackson	1925	18	36	2.8
328	do.	do.	B. M. McMinn	B. M. McMinn	1924	21	36	2.7
d/329	11 miles southwest	do.	J. W. McMinn	Sun Oil Co.	1933	--	3	--
330	10 $\frac{1}{2}$ miles southwest	do.	Horace Flournoy	--	--	Spring	--	--
331	9 $\frac{1}{2}$ miles southwest	do.	Oscar McGhee	--	1930	28	36	3.2
332	8 $\frac{1}{2}$ miles southwest	do.	S. Smith	Tom Gillam	1935	24	42	3
333	9 miles south	do.	W. P. Little	--	1921	10	36	2.9
336	8 $\frac{1}{2}$ miles south	B. Fry	Ed. Smyrl	--	1910	46	36	2.9
337	10 miles south	Vontura Tejeda	Marsh & McIlwain	Sam Webster	--	66	36	3
338	10 $\frac{1}{2}$ miles south	do.	L. T. Smith	--	1933	48	--	--

W. M. Lylo, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
313	30.4	Sept. 4, 1936	B,H	D,S	--	Wood curb; brick casing. Located in Cherokee County.
314	25.8	do.	B,H	D,S	Hilltop	Wood curb.
315	17.8	Sept. 17, 1936	B,H	D,S	Hillside	Do.
316	15.5	Sept. 15, 1936	B,H	D,S	do.	Brick curb.
317	13.5	Sept. 17, 1936	B,H	D,S	--	Wood curb.
318	21.1	Sept. 4, 1936	B,H	D,S	Hillside	Wood curb; no casing.
319	24.7	do.	B,H	D,S	do.	Do.
320	19	Sept. 8, 1936	B,H	D,S	do.	Concrete curb; brick casing.
321	13.2	Aug. 6, 1936	B,H	D,S	do.	Wood curb; 2 feet wood casing at bottom.
322	20.6	Sept. 17, 1936	B,H	D,S	Hilltop	Concrete curb; no casing.
323	30.7	Aug. 6, 1936	B,H	D	do.	Wood curb; concrete casing.
324	33.8	do.	None	N	Hillside	Concrete curb; brick casing.
325	Flows	Oct. 19, 1936	None	--	Hilltop	Drilled well.
326	10.7	Aug. 6, 1936	B,H	D,S	do.	Wood curb; brick casing.
327	13.5	do.	B,H	D,S	Hillside	Wood curb and casing.
328	16.7	Sept. 17, 1936	B,H	D,S	do.	Do.
329	Flows	do.	None	N	Hilltop	Drilled well. Estimated flow, 10 gallons a minute.
330	Flows	Aug. 6, 1936	None	D,S	Valley	Estimated flow, 6 gallons a minute from 2 openings in sandstone. Temperature 74° F.
331	27.7	Sept. 18, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
332	20.6	do.	B,H	D,S	--	Rock curb; concrete casing.
333	10.3	do.	B,H	D,S	Hillslope	Concrete curb and casing.
336	46.2	Aug. 30, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
337	65.6	do.	B,H	D,S	Hillside	Do.
338	--	do.	C,H	D,S	Hilltop	Steel casing.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <i>a/</i>
339	10½ miles south	Ventura Tejada	L. T. Smith	The Texas Co.	1934	240	2	--
340	do.	do.	G. M. Smith	--	1928	34	60	3.7
341	12 miles south	do.	R. L. Marsh & W. B. Marsh	--	1929	29	36	3
342	13 miles south	Jos. Barnhart	Beulah Daniel	--	--	35	36	2.3
343	14½ miles south	W. Craig	Cotton Belt R. R. Co.	--	--	14	216	0.3
344	15 miles south	W. H. Steel	do.	--	--	Spring	--	--
d/346	15½ miles south	do.	J. L. Vandever	-- Douglas	1836	32	48	5.6
347	do.	do.	U. S. Govt. Cannery	--	1935	24	48	3
348	do.	do.	Bullard Independent School Dist.	--	--	43	36	3
351	do.	do.	C. M. Gilmore	--	--	50	36	3.2
352	15 miles south	do.	J. T. Robins	--	1888	44	36	3.5
353	do.	do.	J. L. Killough	--	1932	19	96	--
354	14 miles south	Vinson Moore	Smith County	--	--	Spring	--	--
355	14½ miles south	do.	A. J. McMinn heirs	--	--	20	36	2.9
356	14 miles south	do.	M. D. Cord	--	--	Spring	--	--
357	do.	do.	Mrs. S. A. Morgan	Bently Smith	1926	14	36	3
d/358	do.	do.	do.	Gulf Prod. Co.	1933	600	6	--
359	do.	do.	J. Green	--	1926	34	36	3.8
d/360	13½ miles south	do.	J. F. Horton	J. F. Horton	1921	85	36	--
361	do.	do.	do.	--	--	Spring	--	--
362	15½ miles south	W. D. Wise	J. T. Key	Ed. Miller	1896	53	36	2.8
363	15 miles south	Jacob Mast	R. L. Ray	C. C. Key	--	26	36	3
364	13 miles south	do.	W. W. Cates	--	1930	36	36	2.5
365	13½ miles south	do.	O. T. Robins	--	--	Spring	--	--

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
339	Flows	Aug. 30, 1936	None	N	Valley	Drilled well. Measured flow, 3 gallons a minute.
340	32.2	do.	B,H	D,S	Hillside	Wood curb; wood and concrete casing.
341	23.8	Sept. 17, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
342	35.3	do.	B,H	D,S	do.	Wood curb; brick casing.
343	2.6	Sept. 15, 1936	Cf, S,-	Ind	--	Wood casing.
344	Flows	do.	--	D	Hillside	Estimated flow, 10 gallons a minute from several openings in fine sand. Temperature
346	27.4	do.	B,H	D	Hilltop	Wood curb; no casing. Located in 71° F. Cherokee County.
347	11.4	Sept. 16, 1936	B,H	D	Hillside	Do.
348	16.9	Sept. 15, 1936	C,E,-	P	Level	Brick curb; no casing.
351	36.2	do.	B,H	D	do.	Brick curb.
352	16.3	Sept. 16, 1936	B,H	D	Hilltop	Wood curb; brick casing. Owner reported well completed in hard rock.
353	8.9	do.	--	N	Level	No casing. Owner reported supply too weak to run gin.
354	Flows	Sept. 17, 1936	None	S	Valley	Estimated flow, 3 gallons a minute from 1 opening in white sandstone.
355	17.8	Aug. 18, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
356	Flows	do.	--	S	Valley	Estimated flow, 10 gallons a minute from 3 openings in sandstone.
357	11.3	Aug. 17, 1936	B,H	D	Hilltop	Wood curb; no casing.
358	--	Oct. 10, 1936	None	N	--	Drilled well. Owner reported unfit for domestic use.
359	28.8	Aug. 17, 1936	B,H	S	Hillside	Wood curb; no casing.
360	--	do.	None	--	do.	No casing. Owner reported water unfit for domestic use.
361	Flows	do.	None	S	Valley	Estimated flow, 5 gallons a minute. 3 openings in sandy shale. Temperature 76° F.
362	50.4	do.	B,H	D,S	Hilltop	Wood curb; no casing. Located in Cherokee County.
363	24	do.	B,H	D,S	Valley	Wood and brick curb; concrete casing.
364	36.4	Aug. 14, 1936	B,H	D,S	Hillside	Wood curb; no casing.
365	Flows	do.	None	S	Valley	Estimated flow, 30 gallons a minute from several openings in sandstone.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
367	13½ miles south	Jacob Mast	J. T. Robbins	--	1934	38	36	2.4
369	13 miles south	W. M. Luce	Andrew Loftin	Andrew Loftin	1906	50	48	2.8
370	11½ miles south	do.	Lula Robinson	--	1896	42	36	2.8
371	do.	do.	L. P. Cook	--	--	38	36	3.2
d/372	10 miles south	W. S. McDonald	A. A. York	J. H. York	1896	39	36	2.3
374	9½ miles south	W. Chancellor	Mrs. -- McCutcheon	--	1933	6	36	--
375	9 miles south	T. H. Davis	J. B. McKinsey	--	--	Spring	--	--
376	do.	do.	W. T. Byron	--	--	23	36	2.7
377	8½ miles south	N. Chiles	T. A. Hill	--	--	Spring	--	--
378	7½ miles south	R. Bartlett	A. F. Raspberry	A. P. Raspberry	1926	30	36	3
380	9½ miles south	F. Mulharrister	T. R. Griffin	--	1916	21	36	3.2
381	9 miles southeast	M. Sewell	Dr. C. H. Willingham	--	1910	25	36	2.6
d/382	do.	do.	J. R. Burkott	Jim Stanley	--	38	36	3
384	do.	--	W. D. Lilly	--	1926	23	36	2.8
385	10½ miles southeast	J. M. Draper	Dr. W. Willingham	--	--	27	36	2.6
386	10 miles southeast	--	City of Whitehouse	--	1906	23	48	2.3
387	do.	Manuel Gutierrez	Eva Mink	--	1906	13	36	5
388	10½ miles southeast	do.	Elmer Burns	--	--	26	36	3
d/389	10 miles south	do.	Marsh & McIlwain	--	1850	--	36	--
390	11 miles south	do.	D. W. Burt	Hearon Bros.	--	27	6	1.7
391	11½ miles south	do.	A. J. and A. F. Hearon	A. J. Hearon	1919	36	--	3
392	12 miles southeast	Eliz. Brown	C. P. Stewart	--	1906	18	36	4
393	12 miles south	W. M. Ray	J. P. Hagan	--	--	18	56	2
394	13 miles south	U. Jurgen	J. B. Rawlins	C. N. Steel	1930	24	36	2.7

a/ Measuring point was usually top of well curb, top of casing, or top of pump base.

b/ A, air lift; B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; S, steam; T, turbine; W, windmill; number indicates horsepower.

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
367	37.8	Aug. 14, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
369	46	Aug. 17, 1936	B,H	D,S	do.	Wood curb; brick and galvanized iron casing.
370	43.9	Sept. 17, 1936	B,F	N	do.	Wood curb; no casing.
371	35.7	Aug. 13, 1936	B,H	D,S	Hillside	Do.
372	31	Aug. 10, 1936	B,H	D,S	do.	Do.
374	4	do.	B,H	S	do.	No casing.
375	Flows	do.	None	D,S	do.	Estimated flow, 2 gallons a minute from 1 opening in red sand.
376	24	Aug. 30, 1936	B,H	D,S	do.	Wood curb and casing.
377	Flows	do.	None	D,S	Valley	Estimated flow, 4 gallons a minute from 2 openings in sand and clay.
378	30.6	do.	B,H	D,S	Hillside	Wood curb.
380	16.2	Aug. 10, 1936	B,H	D,S	Hilltop	Brick curb and casing.
381	19.5	Aug. 8, 1936	B,H	D,S	Hillside	Wood curb; no casing.
382	40.7	July 6, 1936	B,H	D,S	do.	Wood curb.
384	18.9	Aug. 7, 1936	B,H	D,S	do.	Wood curb; no casing.
385	18.4	do.	B,H	D,S	do.	Wood curb; brick casing.
386	17.2	do.	B,H	D	do.	Brick curb and casing.
387	18.5	Aug. 13, 1936	B,H	D	do.	Wood curb and casing.
388	19.1	Aug. 7, 1936	B,H	D	do.	Wood curb; no casing.
389	Flows	Aug. 12, 1936	None	N	--	No casing. Water reported in sand at 90 feet.
390	22.6	Aug. 18, 1936	B,H	D,S	Hillside	Bored and dug well. Wood curb. Owner reported never fails in drought.
391	32.7	do.	B,H	D,S	do.	Wood curb.
392	21.4	Aug. 13, 1936	B,H	D,S	do.	Wood curb; no casing.
393	12.9	Aug. 18, 1936	B,H	D,S	Hilltop	Wood curb; brick casing.
394	23.5	Aug. 13, 1936	B,H	D	Hilltop	Wood curb; no casing.

c/ D, domestic; Ind, industrial; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
396	13 miles south	H. C. Lawrence	Walnut Grove School Dist.	--	--	Spring	--	--
398	13 $\frac{1}{2}$ miles south	C. N. Garrett	H. F. Bivens	--	1910	38	36	3
399	14 miles south	do.	J. H. Steele	--	--	20	60	2.4
400	13 $\frac{1}{2}$ miles south	D. Barcroft	J. N. Yarbrough	--	1896	58	36	2.9
401	do.	do.	do.	--	--	Spring	--	--
402	14 miles south	M. Grigsby	Susie Bowman	--	1880	42	36	2.6
403	14 $\frac{1}{2}$ miles south	do.	J. W. Barnes	Arbia Barnes	1934	49	36	2.3
404	14 miles south	D. Barcroft	Elizabeth Bowman	--	1860	38	36	3
d/405	14 $\frac{1}{2}$ miles south	C. Kasten	T. L. Self	--	--	35	60	2.9
408	17 miles southeast	W. George	S. Stovall	Bob Smith	1930	22	36	2.8
409	15 miles southeast	Samuel Brimberry	Mrs. Ida Brown	--	1895	37	48	2.9
410	do.	do.	D. N. Shaw	--	1930	16	36	2.4
411	14 miles southeast	do.	J. C. Hale	--	1910	34	42	2.7
412	do.	do.	Grady Fite	Grady Fite	1930	28	36	3
413	13 miles southeast	E. Hill	M. A. Simons	Jim Tennison	1929	31	36	2.3
d/414	12 $\frac{1}{2}$ miles southeast	J. Kincannon	Nancy Daniels	Taylor Daniels	1923	22	48	2.6
415	12 miles southeast	Jacob Herrin	Dr. J. H. Willingham	G. W. Taylor	1918	34	36	3
418	11 miles southeast	do.	J. Allen Rushing	Haggety Bros.	1933	22	36	2
419	do.	J. Rector	Ned Langley	Ned Langley	1930	37	36	2.8
420	13 miles southeast	P. L. Trimble	B. J. Wilson	--	--	18	36	3
421	14 miles southeast	W. A. Parmer	Nannie Hancock	--	--	30	36	2.2
424	do.	do.	B. J. Wilson	--	--	20	36	--
426	15 miles southeast	Ben Lafferty	G. W. Swinney	--	--	23	36	3.3
427	do.	do.	Mrs. J. B. Bonner	J. B. Bonner	--	25	36	2.1

V. M. Lyle, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
396	Flows	Aug. 13, 1936	None	D,S	Valley	Estimated flow, 2 gallons a minute from sandstone.
398	38.6	do.	None	N	Hilltop	Wood curb; no casing.
399	19.7	do.	B,H	D,S	Hillside	Do.
400	58.8	do.	B,H	D,S	Valley	Do.
401	Flows	do.	None	--	do.	Estimated flow, 2 gallons a minute from 3 openings in sand.
402	40	do.	B,H	N	Hillside	Wood curb; 6 feet brick casing at top.
403	46.6	Aug. 14, 1936	B,H	D,S	do.	Wood curb; no casing.
404	29.8	do.	B,H	D	do.	Do.
405	33	do.	B,H	D,S	do.	Wood curb; 6 feet concrete casing at top.
408	21.8	Aug. 20, 1936	B,H	D,S	do.	Do casing.
409	37.3	Aug. 13, 1936	B,H	S	Hilltop	Wood curb; no casing.
410	15.6	do.	B,H	S	Valley	Wood curb; concrete casing.
411	32.8	do.	B,H	S	Hillside	Wood curb; no casing.
412	27	do.	B,H	D	do.	Do.
413	31.6	Aug. 18, 1936	B,H	D,S	do.	Do.
414	21.6	Aug. 12, 1936	B,H	D,S	--	Wood curb; wood casing, 15-21 feet.
415	33.8	do.	B,H	D	--	Brick curb and casing.
418	21.9	do.	B,H	D,S	Hilltop	Wood curb; no casing.
419	39.2	do.	B,H	N	do.	Do.
420	14.5	Aug. 21, 1936	B,H	D,S	--	Do.
421	29.2	do.	B,H	D	Hilltop	Concrete curb and casing.
424	15.2	do.	B,H	D,S	Hillside	Do casing.
426	18.4	do.	B,H	D	do.	Wood curb; no casing.
427	16.8	do.	B,H	D	Hilltop	Brick curb; no casing.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) $\frac{a}{b}$
428	14 $\frac{1}{2}$ miles southeast	Ben Lafferty	B. J. Wilson	--	1906	32	36	2
430	15 $\frac{1}{2}$ miles southeast	do.	J. J. Swinney	--	1928	21	36	3.1
431	16 miles southeast	do.	Jasper Wilson	--	1890	23	36	--
432	17 miles southeast	do.	W. McClendon	--	--	Spring	--	--
433	do.	do.	J. McClendon	--	1936	19	36	2.7
434	do.	do.	A. B. Adams Estate	--	--	25	36	2.2
d/435	17 $\frac{1}{2}$ miles southeast	J. Noblett	H. P. Johnson	H. P. Johnson	1929	22	36	5
436	do.	P. Lively	Sally Duncan Estate	Curtis Duncan	1933	25	36	3.6
437	do.	do.	V. B. Wilson	J. F. Stephenson	1923	25	36	4.4
439	18 miles southeast	do.	A. E. McKister Estate	-- Mitchell	1885	23	36	2.6
440	do.	Eason Gee	H. R. White	Harry Blair	1935	16	36	2.3
d/441	do.	do.	J. H. Livingston	-- Hair	1931	18	6	1.2
442	17 $\frac{1}{2}$ miles southeast	do.	J. F. McMinn	--	1935	30	36	2.7
443	18 miles southeast	do.	City of Troup	--	--	302	--	--
445	19 miles southeast	do.	J. M. L. Brown	J. M. L. Brown	1887	37	36	2.6
446	20 $\frac{1}{2}$ miles southeast	Jose M. Procella	O. D. Burns	Henry Lacy	1926	17	36	4.4
447	19 miles southeast	C. Seifort	Cornelius Hall	Asberry Hall	1928	15	36	3
449	19 $\frac{1}{2}$ miles southeast	W. Smith	Laura Swann	Bob Brown	1910	20	36	2.8
450	19 miles southeast	M. G. Henriquez	Jake Malone Estate	Jake Malone Estate	1934	14	36	3
451	do.	do.	W. H. Howard	Jim Rankin	1894	52	36	3.4
452	do.	do.	C. M. Higginbotham, et al.	C. M. Higginbotham	1902	35	36	3
453	18 $\frac{1}{2}$ miles southeast	do.	J. P. Cooper	--	--	28	36	3
d/454	18 miles southeast	do.	Mrs. R. G. Wright, Sr.	--	1921	32	36	5.4
455	do.	do.	R. G. Wright	--	1901	30	36	2.6

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
428	26.4	Aug. 21, 1936	B,H	N	Hilltop	Wood curb; no casing.
430	20.6	do.	B,H	D	Hillside	Do.
431	11.3	do.	B,H	D	Hilltop	No casing.
432	Flows	do.	None	D	Valley	Estimated flow, 3 gallons a minute from 1 opening.
433	17.8	do.	B,H	D	Hillside	Wood curb; no casing.
434	21.4	Aug. 19, 1936	B,H	D	Valley	Wood curb; 15 feet wood casing at top and 10 feet brick casing at bottom.
435	18.7	do.	B,H	D,S	Hillside	Wood curb; no casing.
436	21.4	do.	B,H	D	Hilltop	Do.
437	23.3	do.	B,H	D,S	do.	Do.
439	17.5	do.	B,H	D,S	Hillside	Brick curb and casing.
440	16.8	do.	B,H	D,S	do.	Rock curb; no casing.
441	16.2	Aug. 18, 1936	--	N	do.	Drilled well. Vitrified tile curb and casing. Original depth, 54 feet.
442	22.8	Aug. 21, 1936	B,H	D	--	Wood curb; no casing.
443	--	--	--	P	--	Drilled well. See log.
445	30.3	Aug. 20, 1936	B,H	D,S	Hillside	Wood curb; no casing.
446	18.1	do.	B,H	D,S	--	Wood curb; brick casing.
447	12.5	Aug. 19, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
449	17.9	do.	B,H	D,S	do.	Do.
450	11.6	Aug. 26, 1936	B,H	D	Hillside	Do.
451	42.9	do.	B,H	D	Hilltop	Brick and wood curb; no casing.
452	33.4	Aug. 25, 1936	B,H	D	do.	Wood curb; no casing.
453	27.4	do.	B,H	D	Hillside	Concrete curb; no casing.
454	33.9	do.	B,H	D	Hilltop	Brick casing.
455	29.1	do.	B,H	D	--	Brick curb; no casing.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
456	18 miles southeast	M. G. Henriguez	R. G. Wright, Jr.	--	1906	22	36	3
457	17 miles southeast	do.	P. Lydia	P. Lydia	1929	21	36	2.8
458	16 miles southeast	J. A. Caro	W. E. Rawles Estate	--	1897	20	36	5.8
d/459	16½ miles southeast	James Jordan	T. F. Cummings	Sun Oil Co.	1931	500	6	--
460	do.	do.	do.	T. F. Cummings	1931	25	36	3
462	20 miles southeast	do.	J. B. Mayfield	W. B. Henton	1933	500	6	0.6
463	20½ miles southeast	do.	S. S. Cook	K. O. T. Oil Co.	1934	250	--	0.5
464	do.	do.	Sinclair Oil & Gas Co.	Sinclair Oil & Gas Co.	1931	800	6	--
466	19 miles southeast	do.	Martin Ducksworth	Bryan Stewart	1933	31	36	0.7
d/468	17 miles southeast	do.	I. & G. H. R. R. Co.	--	--	500	--	--
469	16½ miles southeast	do.	City of Ardmore	Reil Scroggins	1935	360	6	--
470	17 miles southeast	do.	Mrs. M. A. Hawkins	-- Harris	1931	27	6	1.1
471	do.	--	Hurricane Ref. Co.	--	1935	388	6	0.5
d/472	do.	T. C. Williams	Clay Ref. Co.	--	1935	782	6	--
473	do.	do.	do.	--	1936	824	6	--
474	18 miles southeast	W. Irons	General American Ref. Co.	Walter Meller	1932	816	6	--
475	do.	do.	do.	do.	1936	494	6	--
476	do.	do.	do.	do.	1934	450	6	--
477	18½ miles southeast	J. Mason	Emma Adams, et al.	--	--	27	60	2.8
478	19 miles southeast	E. Daniels	J. G. Sartain	--	1934	68	--	1.2
479	22 miles southeast	Maria Josefa Pru	J. B. Wilson	The Texas Co.	--	200	6	0.7
480	do.	--	S. A. Sollman	Cilic Burk	--	45	36	3
d/481	21 miles southeast	Juan Vargas	R. G. Wright Estate	D. W. Kerr	1931	165	4	--
482	do.	do.	T. O. Wright	Joss Johnson	1935	14	36	2.7

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
456	17.3	Aug. 25, 1936	B,H	D,S	Hillside	Wood curb; brick casing.
457	18.2	Aug. 26, 1936	B,H	D,S	Hilltop	Wood curb; no casing.
458	19.8	Aug. 21, 1936	B,H	D	Hillside	Brick curb; 4 feet brick casing at top.
459	--	Aug. 24, 1936	C,-	Ind	Hilltop	Drilled well. Steel casing.
460	--	Aug. 21, 1936	B,H	D	Hillside	Wood curb; no casing.
462	--	Aug. 26, 1936	None	N	Hilltop	Drilled well. Steel curb and casing.
463	150	<u>c/</u>	C,G, 10	Ind	--	Drilled well. Steel curb and casing. Water reported in sand, 200-250 feet.
464	--	Aug. 25, 1936	-,E, 60	D,Ind	--	Drilled well. Steel casing. Estimated yield, 400 gallons a minute. See log.
466	28.4	Aug. 5, 1936	B,H	D,S	Hillside	Rock curb; no casing.
468	--	--	--	--	--	Drilled well. See log.
469	--	Aug. 5, 1936	T,-,-	P	--	Drilled well. Water reported in sand at 360 feet.
470	16.3	do.	B,H	D,Ind	Hillside	Vitrified tile curb and casing.
471	82	Apr. 1936 <u>e/</u>	A,-,-	Ind	--	Drilled well. Steel curb and casing. Water reported in sand, 355-388 feet.
472	250-275	<u>c/</u>	A,-,-	Ind	Hilltop	Drilled well. Steel casing. See log.
473	--	Sept. 22, 1936	T,-,-	Ind	do.	Drilled well. Steel casing. Water reported in sand, 590-650 feet.
474	325	<u>c/</u>	A,-,-	Ind	do.	Drilled well. Steel casing.
475	210	Aug. 27, 1936	A,-,-	Ind	do.	Drilled well. Steel casing. Water reported in sand, 276-410 feet.
476	300	May, 1936 <u>c/</u>	A,-,-	Ind	do.	Drilled well. Steel casing.
477	26.4	Sept. 22, 1936	B,H	D,S	do.	Wood curb; 5 feet rock casing at top.
478	63.9	Aug. 28, 1936	C,H	D,S	do.	Wood curb.
479	Flows	Aug. 27, 1936	None	D	Valley	Drilled well. Steel curb and casing. In Rusk County.
480	31.4	Aug. 6, 1936	B,H	D	Hillside	Wood curb; no casing. In Rusk County.
481	50	Sept., 1931 <u>e/</u>	C,E,5	D	--	Drilled well. Steel casing. Water reported from 145-165 feet.
482	14.8	Aug. 26, 1936	B,H	D	Hilltop	Wood curb; no casing.

c/ D, domestic; Ind, industrial; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Smith County--Continued

No.	Distance from Tyler	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
483	20½ miles southeast	Juan Vargas	Dora Wright	--	--	18	36	2.6
484	do.	do.	-- Wolford	Big Indian Oil Co.	--	--	6	--
485	do.	do.	R. W. Fair	H. L. Hunt	1934	272	6	2.6
486	do.	do.	do.	--	--	19	36	3
487	do.	do.	J. J. Denton	Sun Oil Co.	1933	385	6	0.5
488	21½ miles southeast	do.	Roy Loosier	Magnolia Pet. Co.	1931	500-600	6	1.5
d/489	20 miles southeast	do.	G. Wilson	-- Oil Co.	1936	3,600	6	0.5
490	do.	do.	do.	--	1910	25	36	3
491	21 miles southeast	S. Dexter	Will D. Pace	--	1906	31	36	3
492	22 miles southeast	M. de los Santos Coy	A. S. Jarvis	--	1906	44	36	3.2
493	do.	do.	do.	--	1932	70-80	4	1.2
494	21½ miles southeast	do.	S. S. Stone	Clyde Stone	1934	19	36	3
d/495	22½ miles southeast	do.	Assembly of God Church	--	--	17	36	2.8
496	23 miles southeast	do.	J. H. Sharp Estate	Nathan Lane	1910	46	36	3
497	23½ miles southeast	do.	J. H. Sharp	--	1936	32	6	2.3

a/ Measuring point was usually top of well curb, top of casing, or top of pump base.

b/ A, air lift; B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; S, steam; T, turbine; W, windmill; number indicates horsepower.

W. M. Lyle, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topo-graphic situation	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
483	12	Aug. 25, 1936	B,H	D,S	Hillside	Brick curb; no casing.
484	--	Aug. 28, 1936	C,-	--	--	Drilled well. Steel casing.
485	32	Aug. 27, 1936	--	Ind	--	Drilled well. Steel curb and casing. Water reported in sand at 272 feet.
486	17	do.	B,H	D,Ind	Hillside	Wood curb; no casing.
487	--	Aug. 25, 1936	C,-,-	Ind	--	Drilled well. Steel curb and casing. See log.
488	78.9	Aug. 27, 1936	A,-,-	Ind	--	Drilled well. Steel curb and casing.
489	93.4	do.	None	N	Valley	Do.
490	21.3	do.	B,H	D,S	Hillside	Wood curb; no casing.
491	20.7	Aug. 20, 1936	B,H	D	do.	Do.
492	44.1	do.	B,H	D,S	Hilltop	No casing.
493	19	do.	--	D,S, Ind	Valley	Drilled well. Steel curb and casing. Water reported in sand, 70-80 feet. Water
494	18.3	do.	B,H	D,S	do.	Wood and concrete curb; concrete casing. Original depth, raised by gas lift.
495	15.4	do.	B,H	D,P	do.	Wood curb; no casing. Located 178 feet. in Cherokee County.
496	45	do.	B,H	D,S	do.	Concrete curb and casing.
497	30.1	do.	B,H	D	do.	Steel curb and casing.

c/ D, domestic; Ind, industrial; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Table of Drillers' Logs, Smith County, Texas

Driller's log of well 4
Adair & Daniels, A. J. Pairier No. 1.
26 $\frac{1}{2}$ miles northwest of Tyler.

	Thickness (feet)	Depth (feet)
Surface clay - - - - -	20	20
Shale - - - - -	25	45
Sand - - - - -	20	65
Shale - - - - -	81	146
Sand - - - - -	40	186
Sand, shale, and lignite--	20	206
Gummy shale - - - - -	204	410
Sand, shale, and boulders--	110	520
Sand - - - - -	226	746
Shale - - - - -	20	766
Rock - - - - -	12	778
Sandy shale - - - - -	178	956
Sand, shale, and lignite -	64	1020
Gummy shale and boulders -	206	1226
Shale and boulders - - - -	225	1451
Gumbo - - - - -	55	1506
Gummy shale and boulders -	177	1683
Rock - - - - -	3	1686
Hard shale - - - - -	20	1706
Rock - - - - -	4	1710
Gummy shale and boulders -	323	2033
Packed dry sand - - - - -	10	2043
Hard sand - - - - -	20	2063
Shale - - - - -	50	2113
Hard sand rock - - - - -	2	2115
Sandy shale - - - - -	5	2120
Shale - - - - -	40	2160
Rock - - - - -	2	2162
Sand - - - - -	18	2180
Gummy shale - - - - -	48	2228
Shale and boulders - - - -	227	2455
Hard shale - - - - -	55	2510
TOTAL DEPTH - - - - -		4537

Driller's log of well 29
Deep Rock Oil Co., John R. Bowdoin No. 1.
16 $\frac{1}{2}$ miles northwest of Tyler.

Surface clay - - - - -	15	15
Sand - - - - -	5	20
Shale and sand - - - - -	20	40
Sand with shale streaks--	50	90
Broken shale and sand --	160	250
Water sand - - - - -	50	300
Shale and sand - - - - -	100	400
Shale and boulders - - - -	42	442
Rock - - - - -	2	444
Sand, shale, and boulders--	179	623
Shale and boulders - - - -	87	710
Sandy shale - - - - -	46	756
Sand - - - - -	44	800
Sandy shale - - - - -	82	882
Sandy shale and lime streaks--	90	972
Sandy shale - - - - -	20	992
Sand and shale - - - - -	7	999
Broken shale - - - - -	31	1030

Driller's log of well 29--Continued
Thickness Depth
(feet) (feet)

Sand and shale - - - - -	20	1050
Hard sand - - - - -	12	1062
Sand and shale - - - - -	77	1139
Sandy shale - - - - -	5	1144
Sandy shale and lime - - -	25	1169
Sand - - - - -	20	1189
Shale and lignite-- - - -	77	1266
Sandy shale and lignite--	107	1373
Gummy shale - - - - -	30	1403
Shale and sticky lime-- -	57	1460
Shale and lime-- - - - -	40	1500
Lime rock - - - - -	1 $\frac{1}{2}$	1501 $\frac{1}{2}$
Lime and shale-- - - - -	10 $\frac{1}{2}$	1512
Lime rock - - - - -	4	1516
Shale and lime - - - - -	60	1576
Gumbo - - - - -	49	1625
Gummy shale - - - - -	35	1660
Gumbo - - - - -	15	1675
Gumbo and shale - - - - -	10	1685
Gummy lime - - - - -	30	1715
Shale with lime streaks--	30	1745
Shale - - - - -	100	1845
Gypsum - - - - -	10	1855
TOTAL DEPTH-- - - - - -		4220

Driller's log of well 69
Hall & Hall, Texas State Park Board.
9 miles north of Tyler.

Clay - - - - -	23	23
Green shale-- - - - - -	22	45
Shell and sandy lime - - -	43	88
Gumbo - - - - -	14	102
Water sand - - - - -	43	145
Shale - - - - -	15	160
TOTAL DEPTH - - - - -		160

CASING RECORD: 160 feet of 6-inch casing.

Driller's log of well 86
Dr. J. F. Browning.
13 miles northeast of Tyler.

Red shale - - - - -	5	5
Red sand rock - - - - -	7	12
White sand - - - - -	2	14
Blue shale - - - - -	15	29
White sand-- - - - - -	3	32
TOTAL DEPTH - - - - -		32

Driller's log of well 107
Owen-Sloan Oil Co., M. Starnes No. 1.
19 miles northeast of Tyler.

Surface sand - - - - -	150	150
Lime and shale - - - - -	1	151
Broken sand and shale - - -	805	956
Sticky gumbo - - - - -	20	976
Lignite - - - - -	9	985

(Continued on next page)

Driller's log of well 107--Continued		
	Thickness (feet)	Depth (feet)
Sandy shale - - - - -	89	1074
Gumbo and boulders- - - -	16	1090
Broken lime - - - - -	5	1095
Shale and shells- - - - -	15	1110
Sand and shale - - - - -	50	1160
Gumbo - - - - -	10	1170
Light brown sand- - - - -	15	1185
Shale - - - - -	80	1265
Gumbo - - - - -	10	1275
Sand and shale- - - - -	18	1293
Hard lime and shell - - -	1	1294
Gumbo and boulders- - - -	70	1364
Sticky shale - - - - -	116	1480
Sandy shale - - - - -	30	1510
Blue shale - - - - -	45	1555
Sticky shale - - - - -	35	1590
Gumbo - - - - -	26	1616
Blue gumbo - - - - -	59	1675
Sandy shale - - - - -	61	1736
Boulders and gumbo- - - -	11	1747
Shale and sandy shale - -	198	1945
Gumbo - - - - -	25	1970
Sticky shale - - - - -	75	2045
Gumbo - - - - -	3	2048
Sticky gumbo - - - - -	102	2150
Shale - - - - -	50	2200
Gumbo and boulders- - - -	79	2279
Sticky shale - - - - -	24	2303
Gumbo - - - - -	91	2394
Sticky shale - - - - -	121	2515
Shale - - - - -	105	2620
TOTAL DEPTH - - - - -		4139

Driller's log of well 117		
Ruffin Kilgore Oil Co., Hamp Florence No. 1. 17½ miles east of Tyler.		
Surface sand and clay-- -	10	10
Sand - - - - -	100	110
Rock - - - - -	1	111
Sand - - - - -	14	125
Rock - - - - -	1	126
Sand - - - - -	25	151
Hard rock - - - - -	4	155
Sand - - - - -	43	198
Sand and boulders - - - -	162	360
Shale and boulders- - - -	544	904
Sand and shale - - - - -	196	1100
Sand and boulders - - - -	25	1125
Shale and boulders- - - -	75	1200
Hard sand - - - - -	5	1205
Sandy shale - - - - -	55	1260
Hard rock - - - - -	2	1262
Sand - - - - -	4	1266
Rock - - - - -	1	1267
Shale and boulders - - - -	202	1469

Driller's log of well 117--Continued		
	Thickness (feet)	Depth (feet)
Rock - - - - -	3	1472
Shale- - - - -	128	1600
Rock - - - - -	4	1604
Sand - - - - -	9	1613
Shale and boulders - - -	191	1804
Gumbo- - - - -	10	1814
Gummy shale- - - - -	66	1880
Shale - - - - -	266	2146
Gumbo - - - - -	20	2166
Shale - - - - -	161	2327
Hard gummy shale - - - -	135	2462
Hard shale - - - - -	311	2773
TOTAL DEPTH - - - - -		4025
CASING RECORD: 198½ feet, of 10-inch casing.		

Driller's log of well 129		
Hunt Production Co., H. Rayford No. 1. 11 miles east of Tyler.		
Clay and sand - - - - -	40	40
Clay, sandy shale, hard sand - - - - -	116	156
Shale and boulders- - - -	834	990
Shale and lignite - - - -	60	1050
Gummy shale - - - - -	85	1135
Sand - - - - -	115	1250
Sticky shale - - - - -	21	1271
Lime rock - - - - -	1	1272
Shale and boulders- - - -	370	1642
Hard shale - - - - -	516	2158
Gummy shale - - - - -	223	2381
Chalk and shale - - - - -	35	2416
Shale - - - - -	230	2646
Gummy lime- - - - -	10	2656
Gummy shale - - - - -	21	2677
TOTAL DEPTH - - - - -		4054
CASING RECORD: 150 feet of 10-inch casing.		

Driller's log of well 135		
Mac-Tex Producing Co., S. W. Gary No. 1. 14 miles northeast of Tyler.		
Sand - - - - -	50	50
White clay - - - - -	30	80
Water sand - - - - -	30	110
Black sandy shale; sand - - - - -	324	434
Black sticky slate - - - -	69	503
Gumbo - - - - -	17	520
Sand and lignite - - - - -	20	540
Black shale, hard-streaked- 17		557
Gumbo, shale, sand streaks - - - - -	53	610
Black shale, hard-streaked- 40		650
(Continued on next page)		

Driller's log of well 135--Continued		
	Thickness (feet)	Depth (feet)
Black and gray shale, rock - - - - -	70	720
Gumbo - - - - -	25	745
Asphalt, showing oil - - -	4	749
Gumbo with streaks of shale - - - - -	30	779
Hard blue gumbo - - - - -	40	819
Lignite, sand, and shale, showing oil and gas - - -	12	831
Hard black shale - - - - -	2	833
Dark blue gumbo - - - - -	137	970
Sand rock - - - - -	1	971
Gumbo - - - - -	89	1060
Hard black shale - - - - -	40	1100
Gumbo - - - - -	85	1185
Dark gray packed sand with boulders - - - - -	50	1235
Rock - - - - -	2	1237
Hard sand - - - - -	15	1252
Blue gumbo - - - - -	27	1279
Blue shale - - - - -	32	1311
Blue shale and boulders - -	24	1335
Hard sand - - - - -	17	1352
Gumbo - - - - -	12	1364
Rock - - - - -	3	1367
Hard sand - - - - -	25	1392
Rock - - - - -	2	1394
Shale and boulders - - - -	13	1407
Hard blue shale - - - - -	15	1422
Hard rock - - - - -	3	1425
Hard sand - - - - -	13	1438
Hard sand with pyrite - - -	13	1451
Hard blue gumbo - - - - -	21	1472
Hard sand, showing oil and gas - - - - -	11	1483
Rock - - - - -	2	1485
Gumbo - - - - -	12	1497
Rock - - - - -	4	1501
Hard sand and pyrite - - -	15	1516
Gumbo and boulders - - - -	33	1549
Hard rock - - - - -	3	1552
Hard sand and shale - - - -	21	1573
Hard blue gumbo - - - - -	15	1588
Hard rock - - - - -	5	1593
Gumbo and boulders - - - -	11	1604
Hard blue shale - - - - -	14	1618
Rock - - - - -	3	1621
Hard sand - - - - -	10	1631
Sand rock and pyrite - - -	3	1634
Gumbo - - - - -	19	1653
Tough brown gumbo and shale - - - - -	25	1678
Hard rock - - - - -	6	1684
Packed sand - - - - -	14	1698
Rock - - - - -	5	1703

Driller's log of well 135--Continued		
	Thickness (feet)	Depth (feet)
Chalk rock - - - - -	9	1712
Hard rock - - - - -	3	1715
Chalk rock - - - - -	16	1731
Hard rock - - - - -	4	1735
Chalk rock - - - - -	35	1770
Rock - - - - -	3	1773
Gumbo - - - - -	14	1787
Rock - - - - -	3	1790
Hard sand and boulders - -	12	1802
TOTAL DEPTH - - - - -		2184

Driller's log of well 173		
Humble Oil & Refg. Co., H. E. Lassiter		
No. 1. 3 miles northeast of Tyler.		
Surface sand and clay -	104	104
Sandy shale and lignite -	23	127
Sandy shale - - - - -	73	200
Sandy shale and lignite -	125	325
Sandstone - - - - -	80	405
Shale - - - - -	48	453
Sand and lignite - - - -	43	496
Sandy shale - - - - -	44	540
Sand with streaks of shale and lignite - - -	110	650
Packed sand and boulders - - - - -	48	698
Shale and lime - - - - -	50	748
Sandy shale - - - - -	45	793
Sand rock - - - - -	3	796
Anhydrite - - - - -	47	843
Broken anhydrite - - - -	38	881
Salt - - - - -	24	905
TOTAL DEPTH - - - - -		905
CASING RECORD: 41 feet of 15½ - inch casing; 796 feet of 9 - 1/4 - inch casing.		

Driller's log of well 195		
Elkton Oil Co., Marsh & McIlwaine No. 1.		
3½ miles south of Tyler.		
Red sand - - - - -	8	8
Coarse white water sand -	13	21
Soft white clay and brown gumbo - - - - -	9	30
Green shale, sand, and boulders - - - - -	16	46
Green sand and hard boulders - - - - -	67	113
Loose sand and boulders -	26	139
Brown gumbo and shale - -	10	149
Lignite - - - - -	5	154
Loose fine gray sand and boulders - - - - -	142	296
Soft brown shale and gumbo - - - - -	50	346
Fine gray sand and boulders - - - - -	170	516
(Continued on next page)		

Table of Drillers' Logs, Smith County--Continued

Driller's log of well 195--Continued		
	Thickness (feet)	Depth (feet)
Hard black shale and lignite - - - - -	4	520
Tough brown gumbo - - - - -	2	522
Hard brown shale and gumbo - - - - -	4	526
Gray sand and boulders - -	50	576
Brown shale, blue gumbo, and boulders - - - - -	30	606
Hard brown shale and gumbo - - - - -	30	636
Gray sand and boulders - -	114	750
Soft brown shale, fine gray sand, and boulders - - - - -	52	802
Brown gumbo, black shale, and some lignite - - - -	78	880
Coarse gray sand; boulders - - - - -	20	900
Hard brown gumbo - - - - -	14	914
Brown shale, lignite, and boulders - - - - -	87	1001
Brown gumbo - - - - -	45	1046
Dark blue sandy shale - -	10	1056
Brown gumbo and shale, and lignite - - - - -	38	1094
Gray and black sand rock - - - - -	2	1096
Gray sand rock - - - - -	2	1098
Dark blue sandy shale and boulders - - - - -	72	1170
Lignite - - - - -	9	1179
Blue sandy shale, boulders -	22	1201
Sandy boulders - - - - -	30	1231
Brown shale and gumbo, fine gray sand, and lignite--	30	1261
Dark brown shale; boulders containing lime - - - - -	39	1300
Dark brown limy shale - - -	13	1313
Gray limy sand rock - - - -	2	1315
Dark blue and brown shale; pyrite; lime boulders - - -	35	1350
Dark brown and black shale, some lime and pyrites; boulders - - - - -	50	1400
Dark brown and black shale, and boulders - - - - -	25	1425
Lignite and coal - - - - -	6	1431
Shale and boulders - - - -	14	1445
Blue gumbo - - - - -	30	1475
Blue shale and gumbo with some pyrite and lignite -	62	1537
Tough blue gumbo - - - - -	9	1546
Blue sandy gumbo with brown shale - - - - -	26	1572
Hard dark gray fine sand--	3	1575

Driller's log of well 195--Continued		
	Thickness (feet)	Depth (feet)
Fine gray limy sand - - -	8	1583
Fine gray packed sand - -	7	1590
Brown sandy shale; lignite - - - - -	10	1600
Hard lignite - - - - -	2	1602
Dark blue hard gumbo - - -	23	1625
Blue gumbo and gray sandy shale - - - - -	35	1660
Dark brown shale; lignite, coarse gray water sand -	10	1670
Fine gray packed sand - -	15	1685
Gray limy sand rock - - -	2	1687
Hard limy sand rock - - -	8	1695
Hard dark blue gumbo - - -	14	1709
Coarse gray sand - - - - -	2	1711
Lignite - - - - -	4	1715
Light brown and blue shale -	37	1752
Fine gray limy sand - - -	20	1772
Fine gray sand with streaks of lignite and shale - - - - -	15	1787
Hard lime boulders - - - -	2	1789
Fine gray sand, and brown and blue lignitic shale -	6	1795
Coarse gray sandy shale with lignite and boulders - - - - -	24	1819
Blue gumbo and green sand -	43	1862
Dark brown shale, blue gumbo with fine gray sand, some pyrite - - - -	35	1897
Tough blue gumbo, boulders, streaks of black and brown shale - - - - -	55	1952
Tough blue gumbo, and black shale streaks - - -	20	1972
Blue gumbo, hard boulders, some black shale - - - -	27	1999
Coarse gray sand, some black shale, and pyrites -	12	2011
Tough blue gumbo and brown shale with gray sand - -	32	2043
Blue shale and gumbo - - -	40	2083
Blue gumbo and shale - - -	7	2090
Gray limy sand, and pyrite -	2	2092
Tough blue gumbo and shale - - - - -	16	2108
Light blue limy shale and gumbo - - - - -	25	2133
Dark blue shale, pyrite - -	12	2145
Tough dark blue shale and gumbo - - - - -	13	2158
Gray limy sand rock - - - -	5	2163
Dark blue limy gumbo - - - -	5	2168
Gray limy sand rock - - - -	2	2170

(Continued on next page)

Table of Drillers' Logs, Smith County--Continued

Driller's log of well 195--Continued

Thickness Depth
(feet) (feet)

Dark blue tough gumbo		
and hard blue shale- - -	40	2210
Gray sandy blue shale,		
some lime, and pyrite- -	10	2220
Tough blue gumbo and		
shale - - - - -	25	2245
Hard blue shale, tough blue		
gumbo, and streaks of		
sandy lime - - - - -	65	2310
Dark blue sandy shale with		
lime and pyrite - - - -	20	2330
Tough blue limy gumbo- - -	8	2336
Hard blue gumbo - - - - -	2	2340
Coarse gray water sand-- -	14	2354
Dark blue shale and gumbo-	8	2362
Hard blue gumbo and shale-	18	2380
Tough blue gumbo - - - - -	2	2382
Hard limy sand rock - - - -	4	2386
Tough blue gumbo - - - - -	2	2388
Tough gumbo, hard shale,		
and hard lime streaks- -	47	2435
Tough gumbo - - - - -	2	2437
Coarse gray water sand - -	8	2445
Blue and brown sandy shale-	10	2455
Tough blue gumbo, and		
hard blue-gray sand		
and shale - - - - -	20	2475
TOTAL DEPTH- - - - -		2475

CASING RECORD: 113 feet of 14-inch casing.

Driller's log of well 212

A. Mayfield, L. E. Star. 3 - 1/4 miles north of Tyler.

Red clay - - - - -	8	8
Ferruginous gravel - - - -	3	11
Yellow sand - - - - -	4	15
White sand - - - - -	12	27
TOTAL DEPTH - - - - -		27

Driller's log of well 234

Layne-Texas Co., Willow Brook Country Club. 2 miles west of Tyler.

Surface sand - - - - -	6	6
Red sand - - - - -	112	118
White sand - - - - -	73	191
Fine sand and lignite- - -	187	378
Fine sand and shale -- - -	40	418
Shale - - - - -	6	424
Fine sand and shale - - -	33	457
Sand rock - - - - -	2	459
Hard sand - - - - -	6	465
Sand rock - - - - -	2	467
White sand - - - - -	35	502
Fine sand - - - - -	45	547

Driller's log of well 234--Continued

Thickness Depth
(feet) (feet)

Shale-streaked sand - - - -	40	587
Sandy shale - - - - -	20	607
Fine sand - - - - -	54	661
Rock - - - - -	1	662
Hard sand - - - - -	3	665
Rock - - - - -	1	666
Sandy shale - - - - -	13	679
Tough shale - - - - -	10	689
White water sand - - - - -	136	825
Tough shale - - - - -	2	827
TOTAL DEPTH - - - - -		827

CASING RECORD: 686 feet of 10-inch casing. 227 feet of 5 - 3/16 inch casing lapped 25 feet into bottom of 10-inch casing. 5 - 3/16 inch screen set: 743-825 feet. 5 - 3/16 inch nipple, back-pressure valve, and plug set: 825-827 feet.

Driller's log of well 264

Nathan Harris, Nathan Harris.

8 1/2 miles west of Tyler.

Bluff-colored sandstone - -	20	20
White sand - - - - -	25	45
Lignite - - - - -	5	50
TOTAL DEPTH - - - - -		50

Driller's log of well 304

Brooks-Saline, Joe Meyer No. 1.

14 1/2 miles southwest of Tyler.

Surface materials - - - - -	8	8
Water sand - - - - -	26	34
Not recorded - - - - -	11	45
Sand and boulders - - - - -	47	92
Gumbo and shale - - - - -	6	98
Sand and boulders - - - - -	45	143
Water sand - - - - -	181	324
Lignite - - - - -	7	331
Black sand - - - - -	14	345
Lignite - - - - -	4	349
Gypsum- - - - -	7	356
Gypsum and gumbo- - - - -	18	374
Water sand - - - - -	45	419
Sand - - - - -	105	524
Hard sand - - - - -	4	528
TOTAL DEPTH - - - - -		528

Driller's log of well 309

W. J. Gregory, H. E. Lasseter.

16 miles southwest of Tyler.

Red and white sand - - - -	5	5
Clay - - - - -	15	20
Red sand - - - - -	4	24
Clay - - - - -	5	29

(Continued on next page)

Table of Drillers' Logs, Smith County--Continued

Driller's log of well 309--Continued

	Thickness (feet)	Depth (feet)
Red sand - - - - -	4	33
TOTAL DEPTH- - - - -		33

Driller's log of well 443

Layne-Texas Co., City of Troup.
18 miles southeast of Tyler.

Soil - - - - -	1	1
Sandy clay - - - - -	3	4
Yellow sand- - - - -	10	14
Sandy clay - - - - -	3	17
Sandy shale- - - - -	94	111
Sand rock- - - - -	1	112
Shale and rock - - - - -	36	148
Flint - - - - -	2	150
Shale, rock, sand, and gumbo - - - - -	46	196
Sand and lignite - - - - -	16	212
Gumbo - - - - -	4	216
Fine white sand - - - - -	38	254
Gumbo - - - - -	30	284
Coarse white sand- - - - -	15	299
Gumbo - - - - -	3	302
Lignite- - - - -	8	310
Gumbo - - - - -	10	320
TOTAL DEPTH - - - - -		320

CASING RECORD: 219 feet of 12½-inch casing. 187 feet of 8-inch casing lapped 54 feet into bottom of 12½-inch casing. 8-inch screens set: 220-257 feet and 283-298 feet. Nipple, back-pressure valve, and plug set: 298-300 feet.

Driller's log of well 464

Layne-Texas Co., Sinclair Oil & Gas Co.
(Mayfield lease).

20½ miles southeast of Tyler.

Red sand and clay - - - - -	15	15
Yellow sand and clay- - -	10	25
Brown sand - - - - -	20	45
Brown shale- - - - -	108	153
Sticky shale - - - - -	46	199
Green sand - - - - -	16	215
Sandy shale - - - - -	19	234
Hard sandy shale- - - - -	37	371
Hard sand - - - - -	85	356
Hard gray sand- - - - -	75	431
Hard sand and boulders- -	41	472
Sticky shale - - - - -	53	525
Fine brown sand - - - - -	32	557
Sticky shale - - - - -	7	564
Fine gray sand - - - - -	45	609
Hard sandy lime - - - - -	78	687
Sand rock - - - - -	3	690
Sticky clay - - - - -	40	730
Fine gray sand- - - - -	18	748

Driller's log of well 464--Continued

	Thickness (feet)	Depth (feet)
Sticky clay - - - - -	4	752
Hard gray sand- - - - -	14	766
Sticky clay - - - - -	4	770
Fine gray sand- - - - -	20	790
Sticky clay - - - - -	8	798
Hard sand rock- - - - -	16	814
Rock - - - - -	1	815
TOTAL DEPTH - - - - -		815
CASING RECORD: 445 feet of 12½-inch casing. 12½-inch screen set: 269-330 feet.		

Driller's log of well 468

I. & G. N. R. R. Co., Arp Well.
17 miles southeast of Tyler.

Sand and gumbo - - - - -	180	180
Packed sand - - - - -	120	300
Lignite - - - - -	60	360
Shale - - - - -	40	400
Lignite - - - - -	20	420
Sand - - - - -	20	440
Shale and rock- - - - -	60	500
TOTAL DEPTH - - - - -		500

Driller's log of well 472

Clay Refg. Co. 17 miles southeast of Tyler.

Surface materials, shells-	440	440
Water sand - - - - -	32	472
Lignite - - - - -	18	490
Brown sand and shale - -	50	540
Sandy shale - - - - -	50	590
White sand - - - - -	60	650
Shale - - - - -	60	710
Fine gray sand - - - - -	72	782
TOTAL DEPTH - - - - -		782

Driller's log of well 487

Sun Oil Co., J. J. Denton.

20½ miles southeast of Tyler.

Clay - - - - -	20	20
Gumbo - - - - -	10	30
Rock- - - - -	1	31
Gumbo - - - - -	17	48
Rock- - - - -	1	49
Green shale - - - - -	5	54
Rock - - - - -	3	57
Green shale - - - - -	1	58
Fine sand - - - - -	32	90
Coarse sand - - - - -	118	208
Lignite - - - - -	5	213
Gumbo - - - - -	17	230
Lignite - - - - -	3	233
Sticky gumbo- - - - -	47	280

(Continued on next page)

Table of Drillers' Logs, Smith County--Continued

Driller's log of well 487--Continued

	Thickness (feet)	Depth (feet)
Gumbo - - - - -	8	288
Hard lignite and shale- -	9	297
Gumbo and shale - - - - -	17	314
Sand - - - - -	30	344
Broken sand and gumbo - -	16	360
Sand - - - - -	7	367
Shale - - - - -	14	381
Gumbo - - - - -	4	385
TOTAL DEPTH - - - - -		385
CASING RECORD: 323 feet of 8-5/8 inch casing. 341 feet of 5-3/16 inch casing. 24 feet of 5-3/16 inch perforated casing at bottom.		

Logs of test wells drilled by W. P. A. labor in Smith County, Texas
(Samples examined and classified by W. M. Lyle, Project Superintendent)

Well 18

Side of hill, 500 feet south of north line and 400 feet east of west line Jacob Jackson 50 acre tract, L. Watson Survey, 16 $\frac{1}{2}$ miles northwest of Tyler.

	Thickness (feet)	Depth (feet)
Surface soil - - - - -	2	2
Fine white sand - - - - -	4	6
Red sandy clay - - - - -	4	10
Buff-colored sand - - - - -	2	12
White clay and sand - - - - -	2	14
Yellow and gray sand - - - - -	2	16
Fine yellow sand - - - - -	4	20
Light brown and gray sand - - - - -	2	22
Gray sandy clay - - - - -	2	24
Light gray and brown sand - - - - -	3	27
Fine yellow sand - - - - -		27

No water sample collected. Oct. 17, 1936.

Well 20

1,000 feet east of west line and 100 feet north of south line N. F. and E. O. Hobbs tract, J. Dickinson Survey, 14 $\frac{1}{2}$ miles northwest of Tyler.

White sand - - - - -	5	5
Yellow sand - - - - -	7	12
Yellow sandy clay - - - - -	4	16
Yellow sand - - - - -	1	17

Water level, 5.7 feet below top of ground, 1 hour after hole completed.

Water sample collected. Oct. 10, 1936.

Well 21

Center south line SE $\frac{1}{4}$ W. Z. Albright 172 acre tract, J. B. Martin Survey, 14 miles northwest of Tyler.

Sand - - - - -	3	3
Red clay - - - - -	7	10
White clay - - - - -	7	17
Red gravel and clay - - - - -	2	19
Hard rock - - - - -		19

Struck water at 19 feet.

No water sample collected. Oct. 6, 1936.

Well 33

Side of hill, east side of State Highway, 1 mile south of Sabine River, Wm. Craig Survey, 20 $\frac{1}{2}$ miles northwest of Tyler.

Red clay - - - - -	3	3
Yellow clay - - - - -	3	6
White clay - - - - -	3	9
Yellow clay - - - - -	3	12
White clay - - - - -	3	15
Yellow clay - - - - -	3	18

No water sample collected. Sept. 29, 1936.

Well 35

Valley, west side of State Highway, 500 feet south of Sabine River, Val Burch Survey, 21 miles northwest of Tyler.

	Thickness (feet)	Depth (feet)
Gray sand - - - - -	2	2
Sand and clay - - - - -	4	6
White clay - - - - -	3	9
Black clay - - - - -	3	12
Yellow clay - - - - -	4	16
White clay - - - - -	2	18
Clay - - - - -	3	21
Clay and gumbo - - - - -	5	26
White sand - - - - -	1	27
Yellow sand - - - - -	3	30

No water sample collected. Sept. 29, 1936.

Well 44

Side of hill, 100 feet north of south line and 100 feet east of west line Mrs. W. F. McCool tract, J. H. Sanders Survey, 11 miles northwest of Tyler.

Fine white sand - - - - -	4	4
Hard buff-colored sand - - - - -	4	8
Dark and buff-colored sand - - - - -	4	12
Gray and buff-colored sand - - - - -	3	15
White and pink clay containing sand - - - - -	3	18

Struck water at 15 feet.

Water sample collected. July 30, 1936.

Well 52

Valley, road intersection, on east line of Mrs. J. W. Taylor tract, 15 miles north of Tyler.

Surface soil - - - - -	1	1
White sand - - - - -	1	2
Buff-colored clay - - - - -	1	3
White clay - - - - -	1	4
White and gray clay - - - - -	3	7
Black clay - - - - -	1	8
White clay - - - - -	1	9
Black clay - - - - -	2	11
White clay - - - - -	1	12
Black clay - - - - -	2	14
Buff-colored clay - - - - -	2	16

No water sample collected. Sept. 28, 1936.

Well 56

Side of hill, 2,000 feet east of west line J. G. Kennedy tract and 50 feet north of east-west highway, E. Splawn Survey, 14 $\frac{1}{2}$ miles north of Tyler.

Surface soil - - - - -	1	1
Blue sandy clay - - - - -	2	3
Red and white sandy clay - - - - -	4	7

(Continued on next page.)

Logs of W. P. A. test wells in Smith County--Continued

Well 56--Continued

	Thickness (feet)	Depth (feet)
Red sandy clay- - - - -	3	10
Sandy clay- - - - -	1	11
Struck water at 10 feet.		
Water level, 8.5 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Sept. 3, 1936.		

Well 57

Valley, 500 feet west of east line and 100 feet north of south line of Mrs. L. I. Smith 150 acre tract, M. de los A. Car- mona Survey, 12 miles north of Tyler.		
Gumbo - - - - -	6	6
Sand and gumbo- - - - -	2	8
Dark shale- - - - -	10	18
Struck water at 6 feet.		
Water level, 4.6 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Sept. 28, 1936.		

Well 58

Southwest corner SE $\frac{1}{4}$ W $\frac{1}{2}$ Mrs. L. I. Smith 150 acre tract, M. de los A. Carmona Sur- vey, 12 miles north of Tyler.		
Surface soil- - - - -	2	2
Gray shale- - - - -	10	12
Gumbo - - - - -	4	16
Yellow sand - - - - -	4	20
No water sample collected. Sept. 28, 1936.		

Well 61

Valley, 100 feet south of north line J. H. Jordan 50 acre tract and 100 feet west of north-south road, M. de los A. Carmona Survey, 12 miles north of Tyler.		
White sand- - - - -	6	6
Red shale - - - - -	10	16
Dark shale- - - - -	2	18
White sand- - - - -	10	28
No water sample collected. Sept. 28, 1936.		

Well 82

Side of hill, 1,320 feet east of west line and 400 feet south of north line I. Allen 40 acre tract, J. W. Hitt Survey, 9 $\frac{1}{2}$ miles north of Tyler.		
Surface soil- - - - -	2	2
Fine white sand - - - - -	5	7
Red sandy clay- - - - -	4	11
Yellow and gray sand- - -	6	17
Yellow clay and sand- - -	5	22
White clay and red sand -	3	25
Yellow sandy clay - - - -	6	31
Yellow and white sand - -	4	35
No water sample collected. Oct. 8, 1936.		

Well 85

Near center of east line NE $\frac{1}{4}$ M. Starnes tract, Martin Lagrone Survey, 12 $\frac{1}{2}$ miles northeast of Tyler.		
	Thickness (feet)	Depth (feet)
Red clay- - - - -	5	5
Blue clay - - - - -	3	8
White clay- - - - -	2	10
No water sample collected. Sept. 1, 1936.		

Well 87

A. B. Williams tract, $\frac{1}{2}$ mile north and $\frac{1}{2}$ mile west of southeast corner of A. Castleberry Survey, 16 miles northeast of Tyler.		
White sand- - - - -	2	2
Red clay- - - - -	2	4
Red sand- - - - -	4	8
Gumbo - - - - -	4	12
Water level, 6 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Oct. 8, 1936.		

Well 94

Side of hill, county road, near southwest corner of I. L. Clinkscales 78 acre tract, E. Newberry Survey, 13 miles northeast of Tyler.		
Dark sand - - - - -	2	2
Buff-colored sand - - - -	2	4
Blue clay - - - - -	6	10
No water sample collected. Sept. 1, 1936.		

Well 97

Top of hill, T. Jeffries tract, center of east edge SE $\frac{1}{4}$ SW $\frac{1}{4}$ W. Williams Survey, 15 $\frac{1}{2}$ miles northeast of Tyler.		
White sand- - - - -	6	6
Red sand- - - - -	4	10
Hard rock - - - - -		10
No water sample collected. Sept. 14, 1936.		

Well 99

West line of L. H. Bell 62 acre tract, northwest corner SW $\frac{1}{4}$ NW $\frac{1}{4}$ O. Hawkins Survey, 18 miles northeast of Tyler.		
Surface sand- - - - -	1	1
Red clay- - - - -	9	10
Hard rock - - - - -		10
No water sample collected. Sept. 4, 1936.		

Well 109

Side of hill, State Highway, J. R. Garner tract, northwest corner NE $\frac{1}{4}$ NE $\frac{1}{4}$ T. Hignight Survey, 18 miles northeast of Tyler.		
Surface sand- - - - -	2	2
Red clay, white streaked- -	10	12
No water sample collected. Sept. 4, 1936.		

Well 114

Side of hill, State Highway, northwest corner of Mrs. H. F. Bass tract, Barnes Clark Survey, $1\frac{1}{2}$ miles west of county line, 18 miles east of Tyler.

	Thickness (feet)	Depth (feet)
Red sand- - - - -	3	3
Yellow sand - - - - -	3	6
Red and yellow sand - - - -	3	9
Red sand- - - - -	2	11
Fine red and yellow sand- -	2	13
Yellow and white sand - - -	3	16
Fine white and yellow sand- 3	19	
No water sample collected. Aug. 10, 1936.		

Well 116

Side of hill, State Highway; center of NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ Barnes Clark Survey, 17 miles east of Tyler.

Surface soil- - - - -	1	1
Red clay- - - - -	2	3
Yellow sandy clay - - - - -	1	4
Red and yellow sandy clay -	1	5
Buff-colored sand - - - - -	4	9
Brown and yellow sand - - -	2	11
Struck water at 8 feet.		
No water sample collected. Aug. 11, 1936.		

Well 137

Side of hill, 1,000 feet north of south line and 200 feet east of west line W. S. Hood tract, W. W. Hanks Survey, 12 miles northeast of Tyler.

White sand- - - - -	2	2
Red sandy clay- - - - -	7	9
Red clay- - - - -	1	10
Yellow clay - - - - -	4	14
Rock- - - - -		14
No water sample collected. Sept. 1, 1936.		

Well 139

Side of hill, county road, northeast corner SW $\frac{1}{4}$ SW $\frac{1}{4}$ N $\frac{1}{2}$ W. W. Hanks Survey, 12 miles east of Tyler.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	3	5
Blue sandy clay - - - - -	7	12
No water sample collected. Sept. 3, 1936.		

Well 146

Valley, center of Walter Connally Estate 58 acre tract, Jacob Herrin Survey, 11 miles southeast of Tyler.

Black soil- - - - -	2	2
Gray clay - - - - -	3	5
Gray sand - - - - -	8	13
Red and yellow sand - - - -	1	14

Well 146--Continued

	Thickness (feet)	Depth (feet)
Gray clay- - - - -	1	15
White sand - - - - -	7	22
Yellow quicksand - - - - -		22
Struck water at 11 feet.		
Water level, 6.8 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Oct. 1, 1936		

Well 147

Top of hill, 500 feet north of south line and 500 feet west of east line, Walter Connally Estate 95 acre tract, Jacob Herrin Survey, 12 miles southeast of Tyler.

White sand - - - - -	1	1
Yellow sand- - - - -	1	2
Yellow clay- - - - -	2	4
Red clay - - - - -	1	5
Yellow sand- - - - -	3	8
Yellow clay- - - - -	3	11
Light yellow and gray clay	1	12
No water sample collected. Sept. 22, 1936.		

Well 149

Side of hill, northwest corner of Walter Connally Estate 43 acre tract, Jacob Herrin Survey, 10 miles southeast of Tyler.

White sand - - - - -	1	1
Yellow sand- - - - -	1	2
Sand - - - - -	1	3
Red and white clay - - - -	2	5
White gumbo- - - - -	2	7
Blue clay- - - - -	1	8
White sand - - - - -	1	9
White sandy clay - - - - -	2	11
White sand - - - - -	1	12
Blue clay- - - - -	1	13
White sand - - - - -	2	15
Yellow and red clay- - - -	1	16
White sand - - - - -	1	17
Red sand - - - - -	2	19
White sand - - - - -	3	22
Yellow clay- - - - -	1	23
Blue clay- - - - -	1	24
White sand - - - - -	6	30
Red clay- - - - -	2	32
No water sample collected. Sept. 22, 1936.		

Well 157

Side of hill, county road, northeast corner NW $\frac{1}{4}$ SW $\frac{1}{4}$ Brock Survey, $9\frac{1}{2}$ miles east of Tyler.

White sand and lignite - -	2	2
Lignite- - - - -	2	4
White sand - - - - -	5	9

(Continued on next page.)

Well 157--Continued

	Thickness (feet)	Depth (feet)
Yellow sand- - - - -	1	10
White sand - - - - -	2	12
Dark brown sand - - - - -	2	14
Yellow and gray sand with little water - - - - -	1	15
Dry white and brown sand - -	2	17
White and brown sand - - - -	7	24
White and yellow sand- - - -	2	26
Struck water at 17 feet.		
No water sample collected. Sept. 14, 1936.		

Well 158

Side of hill, county road near southwest corner of F. Egerton tract, 9 miles east of Tyler.

Dark shale - - - - -	2	2
White shale and sand - - - -	1	3
Lignite- - - - -	2	5
Red shale- - - - -	3	8
White sand - - - - -	10	18
Chocolate-colored sand - - -	1	19
Hard rock- - - - -		19
Water level, 4.9 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Sept. 10, 1936.		

Well 164

C. W. Morgan tract, near center south line of S. Gage Survey, 5½ miles east of Tyler.

Dark sand- - - - -	1	1
White sand - - - - -	1	2
Red sand - - - - -	2	4
Yellow sand- - - - -	14	18
White sand - - - - -	4	22
Yellow sand- - - - -	2	24
White and yellow sand- - - -	2	26
Gray and pink sand - - - - -	2	28
Gray sandy clay- - - - -	2	30
Yellow and gray sand - - - -	3	33
Brown sandy clay - - - - -	1	34
Yellow-streaked brown sandy clay - - - - -	2	36
Fine white sand- - - - -	2	38
Brown and yellow sand- - - -	2	40
Fine yellow sand - - - - -	3	43
No water sample collected. July 6, 1936.		

Well 165

State Highway, northeast corner NW¼ J. C. Yates Survey, 9½ miles northeast of Tyler.

Red clay - - - - -	1	1
White sand - - - - -	2	3
Yellow sand- - - - -	8	11
Red clay - - - - -	2	13
No water sample collected. Sept. 14, 1936.		

Well 166

Top of hill, State Highway, 1/16 mile west of center of east line of J. S. Linn Survey, 9 miles northeast of Tyler.

	Thickness (feet)	Depth (feet)
White sand- - - - -	1	1
Red sandy clay- - - - -	2	3
Yellow sand - - - - -	8	11
White sand- - - - -	2	13
Red clay- - - - -	2	15
White clay- - - - -	3	18
White sand- - - - -	9	27
No water sample collected. Sept. 14, 1936.		

Well 174

Side of hill, State Highway, near southwest corner of Tate tract, W. W. Shepherd Survey, 4½ miles east of Tyler.

Surface soil- - - - -	4	4
Fine white sand - - - - -	2	6
Yellow sandy clay - - - - -	4	10
Fine yellow sand- - - - -	10	20
Light brown sand- - - - -	2	22
Pink-streaked gray sandy shale - - - - -	2	24
Gray and yellow sand- - - -	1	25
Gray sandy clay - - - - -	1	26
Gray and yellow sandy clay- -	1	27
Gray sandy clay - - - - -	1	28
Fine yellow sand- - - - -	2	30
Hard rock - - - - -		30
No water sample collected. July 6, 1936.		

Well 182

Top of hill, at Lovey's Place, State Highway 176 opposite L. R. Herring tract, J. Kelly Survey, 2 miles east of Tyler.

Surface soil- - - - -	1	1
Red clay- - - - -	3	4
Red sandy clay streaked with gray sand - - - - -	10	14
Yellow and gray sand- - - -	2	16
Gray sandy clay - - - - -	1	17
Broken sandy shale- - - - -	2	19
Brown shale streaked with yellow sand - - - - -	2	21
Yellow and gray sand- - - -	3	24
Gray sandy shale- - - - -	4	28
White sand- - - - -	4	32
No water sample collected. July 2, 1936.		

Well 183

Side of hill, southeast corner of Mrs. T. M. Hill tract, J. Kelly Survey, 2 miles east of Tyler.

Surface soil- - - - -	1	1
Yellow sand - - - - -	3	4
Red and gray clay - - - - -	5	9

(Continued on next page.)

Logs of W. P. A. test wells in Smith County--Continued

Well 183--Continued

	Thickness (feet)	Depth (feet)
Yellow, red, and gray clay-	4	13
Yellow sandy clay - - - - -	3	16
White and yellow sand - - - -	2	18
Yellow and gray sand- - - - -	6	24
No water sample collected. July 2, 1936.		

Well 186

Side of hill, county road center of north line of H. Patton 60 acre tract, Wm. Keys Survey, $4\frac{1}{2}$ miles southeast of Tyler.

Red sand- - - - -	1	1
White sand- - - - -	2	3
Yellow sandy clay - - - - -	1	4
Red sandy clay- - - - -	2	6
Blue sand - - - - -	1	7
White sand- - - - -	3	10
No water sample collected. July 3, 1936.		

Well 199

Side of hill, southeast corner of W. C. Riley tract, 2 miles south of Tyler.

Surface soil- - - - -	2	2
Fine yellow sand- - - - -	2	4
Yellow and gray sand- - - - -	2	6
Red and gray clay - - - - -	1	7
Red sandy clay- - - - -	2	9
Gray sandy clay - - - - -	3	12
Struck water at 8 feet.		
No water sample collected. Aug. 5, 1936.		

Well 200

Top of hill, 200 feet north of city dump, H. Brooks tract, A. H. Kipp Survey, $1\frac{3}{4}$ miles south of Tyler.

Surface soil- - - - -	2	2
White sand- - - - -	6	8
Red clay- - - - -	12	20
Yellow clay - - - - -	2	22
Red clay- - - - -	2	24
Yellow clay - - - - -	2	26
White clay- - - - -	2	28
Blue clay - - - - -	2	30
Struck water at 26 feet.		
No water sample collected. July 13, 1936.		

Well 201

Top of hill, at head of Palace Street, St. Louis Cotton Belt Ry. Co. tract, A. H. Kipp Survey, $1\frac{1}{4}$ miles southwest of Tyler.

Surface soil- - - - -	1	1
Red clay- - - - -	12	13
Red sand- - - - -	7	20
Hard rock - - - - -		20
No water sample collected. July 6, 1936.		

Well 192

Top of hill, county road, northeast corner of W. E. Holder 55 acre tract, Thomas Orr Survey, 7 miles southeast of Tyler.

	Thickness (feet)	Depth (feet)
Surface soil - - - - -	1	1
Yellow sand- - - - -	3	4
Yellow sand and clay - - - -	1	5
Hard rock- - - - -		5
No water sample collected. Aug. 10, 1936.		

Well 202

Side of hill, St. Louis Cotton Belt Ry. Co. tract, A. G. Barrett Survey, 1 mile southwest of Tyler.

Surface soil - - - - -	2	2
Yellow sand- - - - -	2	4
Red sand - - - - -	3	7
Fine white sand- - - - -	3	10
White clay and sand- - - - -	9	19
Struck water at 10 feet.		

No water sample collected. July 10, 1936.

Well 203

Top of hill, Lindsey Lane at St. Louis Cotton Belt Ry. Co. tracks, $\frac{3}{4}$ mile southwest of Tyler.

Surface soil - - - - -	1	1
White sand - - - - -	3	4
Yellow sand- - - - -	2	6
Red and white clay - - - - -	2	8
Red clay - - - - -	3	11
Yellow sand- - - - -	2	13
Rock - - - - -		13

No water sample collected. July 9, 1936.

Well 204

Top of hill, city street, southwest corner NW $\frac{1}{4}$ NE $\frac{1}{4}$ A. Y. Jones Survey, $\frac{3}{4}$ mile south of Tyler.

White sand - - - - -	2	2
Red clay - - - - -	4	6
White clay - - - - -	4	10
Yellow clay- - - - -	4	14
White sand - - - - -	2	16
Struck water at 14 feet.		

No water sample collected. July 8, 1936.

Well 206

Top of hill, 1,000 feet east of Blackstone Hotel, Tyler.

Yellow sand- - - - -	1	1
Red clay - - - - -	6	7
Yellow clay- - - - -	7	14
White clay - - - - -	1	15
Clay - - - - -	1	16
White and yellow sand- - - -	2	18
Struck water at 18 feet.		
No water sample collected. July 6, 1936.		

Logs of W. P. A. test wells in Smith County--Continued

Well 210

Top of hill, J. W. Simpson tract, 3 miles north of Tyler.

	Thickness (feet)	Depth (feet)
White sand - - - - -	2	2
Red clay - - - - -	6	8
Yellow sand - - - - -	10	18
No water sample collected. July 15, 1936.		

Well 213

400 feet north of south line of Mrs. C. K. Davies tract, and 200 feet east of Sand Flat highway, W. Keys Survey, 4 miles north of Tyler.

Fine sand - - - - -	2	2
Red sand - - - - -	1	3
Red clay - - - - -	6	9
Yellow sand - - - - -	4	13
White sand - - - - -	2	15
Buff-colored sand - - - - -	3	18
White and yellow sand - - - - -	7	25
Gray and red sand - - - - -	4	29
No water sample collected. July 27, 1936.		

Well 216

Valley, 400 feet south of north line and 100 feet west of east line Obie Clay tract, John Lane Survey, 6 miles north of Tyler.

White sand - - - - -	7	7
Buff-colored sand - - - - -	10	17
Clay - - - - -	2	19
Sand - - - - -	7	26
Yellow sand - - - - -	6	32
Water level, 27.2 feet below top of ground, 24 hours after hole completed.		
Water sample collected. July 28, 1936.		

Well 225

Side of hill, G. W. Tyler tract, A. G. Barrett Survey, 2 miles northwest of Tyler.

Surface soil - - - - -	1	1
Yellow sandy clay - - - - -	2	3
Red sandy clay - - - - -	1	4
Yellow and gray sand - - - - -	2	6
Red sand - - - - -	4	10
Struck water at 10 feet.		
No water sample collected. July 9, 1936.		

Well 226

Side of hill, G. W. Tyler tract, near southeast corner U. Jergen Survey, $1\frac{3}{4}$ miles northwest of Tyler.

Surface soil - - - - -	1	1
Red sandy clay - - - - -	3	4
Gray sandy clay - - - - -	4	8
Rock - - - - -		8
No water sample collected. July 9, 1936.		

Well 227

Side of hill east side of State Highway, southeast corner NE $\frac{1}{4}$ SW $\frac{1}{4}$ U. Jergen Survey, $2\frac{1}{4}$ miles northwest of Tyler.

	Thickness (feet)	Depth (feet)
Buff-colored sand - - - - -	4	4
Yellow sand - - - - -	4	8
White clay - - - - -	2	10
Red clay - - - - -	1	11
Red sand - - - - -	1	12
Water level, 8.3 feet below top of ground, 24 hours after hole completed.		
No water sample collected. July 11, 1936.		

Well 229

Valley, E. H. Woldert tract, 1,000 feet north of south line and 400 feet east of west line T. O'Hare Survey, $\frac{3}{4}$ mile north of Tyler.

Dark sand - - - - -	2	2
White sand - - - - -	7	9
White clay - - - - -	9	18
Struck water at 18 feet.		
No water sample collected. July 8, 1936.		

Well 231

South end of Mockingbird Land, J. Lollar Survey, Tyler.

Red sand - - - - -	4	4
Yellow sand - - - - -	2	6
Red and gray sand - - - - -	2	8
White sand - - - - -	3	11
Fine yellow sand - - - - -	6	17
Rock - - - - -		17
No water sample collected. Aug. 4, 1936.		

Well 233

Top of hill, 2,006 Lake Park Road, J. Gilbert Survey, $1\frac{1}{2}$ miles west of Tyler.

Sand - - - - -	4	4
Red sand - - - - -	9	13
White sand - - - - -	2	15
Yellow sand - - - - -	2	17
Brown clay - - - - -	9	26
No water sample collected. Sept. 15, 1936.		

Well 235

Top of hill, 600 feet north of highway, in cemetery, John A. Burrus Survey, $1\frac{3}{4}$ miles west of Tyler.

White sand - - - - -	1	1
Yellow sand - - - - -	3	4
Yellow clay - - - - -	2	6
Red clay - - - - -	2	8
Yellow clay - - - - -	2	10
White sand - - - - -	2	12
Yellow sand - - - - -	2	14

(Continued on next page.)

Logs of W. P. A. test wells in Smith County--Continued

Well 235--Continued

	Thickness (feet)	Depth (feet)
White sand- - - - -	10	24
Yellow sand - - - - -	2	26
White sand- - - - -	4	30
Yellow sand - - - - -	12	42
No water sample collected. July 14, 1936.		

Well 238

Side of hill, 2,000 feet south of north line and 400 feet east of west line J. H. Turner tract, $1\frac{3}{4}$ miles southwest of Tyler.		
Surface soil- - - - -	2	2
Brown and gray sand - - - -	2	4
Yellow sand - - - - -	2	6
Yellow and gray sandy clay- -	1	7
Red and gray sandy clay - -	4	11
Yellow and gray sand - - -	5	16
White sand- - - - -	4	20
Struck water at 18 feet.		
No water sample collected. July 10, 1936.		

Well 239

Top of hill, 100 feet north of railway, at southwest corner of city fair grounds, $1\frac{1}{2}$ miles southwest of Tyler.		
Surface soil- - - - -	2	2
Fine yellow sand- - - - -	4	6
Yellow and white sand - - -	4	10
Light gray sand - - - - -	4	14
Red and yellow sand - - - -	5	19
Yellow sand - - - - -	4	23
Struck water at 23 feet.		
No water sample collected. July 13, 1936.		

Well 240

Valley, on Front Street, 1,000 feet west of northwest corner of city fair grounds, J. Robbins Survey, $1\frac{1}{2}$ miles southwest of Tyler.		
Surface soil- - - - -	2	2
Red sandy clay- - - - -	2	4
Gray and red clay - - - - -	4	8
Yellow and white sand - - -	2	10
White sand- - - - -	4	14
Struck water at 14 feet.		
No water sample collected. July 13, 1936.		

Well 242

50 feet south of railway, Henry Porter tract, near southwest corner of John A. Burrus Survey, but in Myers Survey, $2\frac{1}{2}$ miles west of Tyler.		
White sand- - - - -	3	3
Red sand- - - - -	5	8
Red clay- - - - -	3	11
White clay- - - - -	2	13
Yellow clay - - - - -	4	17

Well 242--Continued

	Thickness (feet)	Depth (feet)
White gumbo - - - - -	6	23
White clay, red-streaked- -	1	24
White clay- - - - -	8	32
No water sample collected; July 14, 1936.		

Well 244

100 feet east of west line Dale Chapel (church) tract, 3 miles west of Tyler.		
White sand- - - - -	1	1
Red clay- - - - -	3	4
White clay- - - - -	3	7
Yellow clay - - - - -	1	8
Blue gumbo, red-streaked- -	8	16
Red sand rock - - - - -	1	17
Blue gumbo- - - - -	4	21
Yellow clay - - - - -	8	29
Blue gumbo- - - - -	8	37
Water sample collected. July 15, 1936.		

Well 246

Top of hill, 600 feet west and 300 feet south of southeast corner N. Perry 50 acre tract, but on the B. B. Cain tract, George Myers Survey, $3\frac{1}{4}$ miles west of Tyler.		
Surface sand- - - - -	3	3
Red sand- - - - -	3	6
Light blue sand - - - - -	8	14
White sand- - - - -	4	18
Red and white sand- - - - -	2	20
No water sample collected. Aug. 2, 1936.		

Well 248

Side of hill, State Highway near southwest corner C. H. Green tract, George Myers Survey, 4 miles west of Tyler.		
White sand- - - - -	2	2
Yellow sand - - - - -	3	5
Blue sand - - - - -	2	7
No water sample collected. July 10, 1936.		

Well 253

Side of hill, 500 feet north of creek, 400 feet east of west line and 2,000 feet south of north line B. B. Cain & Will King tract, George Myers Survey, $3\frac{1}{4}$ miles southwest of Tyler.		
Red sand- - - - -	3	3
Yellow sand - - - - -	3	6
White sand- - - - -	3	9
Buff-colored sand - - - - -	11	20
Fine white sand containing opaque heavy minerals - -		
	7	27
White sand- - - - -	1	28
Struck water at 27 feet.		
Water level, 26.7 feet below top of ground, $\frac{1}{4}$ hour after hole completed. No water sample		

Logs of W. P. A. test wells in Smith County--Continued

Well 256

St. Louis & Cotton Belt Ry., 1 mile west of Greenbriar Station, B. B. & C. R.R. Co. Survey, 6 miles southwest of Tyler.

	Thickness (feet)	Depth (feet)
Red sand- - - - -	3	3
Yellow sand- - - - -	3	6
Blue clay- - - - -	9	15
Yellow clay- - - - -	4	19
Water level, 16.4 feet below top of ground, 1½ hours after hole completed.		
Water sample collected. Aug. 28, 1936.		

Well 273

State Highway, center SE¼SE¼ Wm. Cox Survey, 5½ miles west of Tyler.

Red clay- - - - -	2	2
White clay- - - - -	3	5
Hard clay- - - - -	6	11
White clay- - - - -	14	25
Rock- - - - -		25
No water sample collected. Aug. 5, 1936.		

Well 274

Top of hill, State Highway, opposite G. A. Parker tract, near center of south line of R. Petit Survey, but in George Myers Survey, 6½ miles west of Tyler.

Sand- - - - -	2	2
Sand and shale- - - - -	10	12
Yellow sand- - - - -	10	22
Yellow and brown sand- - - - -	4	26
Yellow sand brown clay- - - - -	10	36
Struck water at 27 feet.		
Water sample collected. Sept. 8, 1936.		

Well 275

Top of hill, State Highway, ¾ mile north and about 1/16 mile east of southeast corner R. M. Merchant Survey, but in George Myers Survey, 5 miles west of Tyler.

Surface sand- - - - -	3	2
Red sand- - - - -	6	8
White sand- - - - -	12	20
Yellow sand- - - - -	7	27
White sand- - - - -	8	35
No water sample collected. Aug. 8, 1936.		

Well 278

Side of hill, O. F. Davis tract, A. R. Clark Survey, 4¼ miles west of Tyler.

Surface soil- - - - -	1	1
Red sandy clay- - - - -	2	3
Yellow sandy clay- - - - -	3	6
No water sample collected. Sept. 8, 1936.		

Well 279

Side of hill, 1,000 feet south of State Highway, D. W. Parish tract, A. R. Clark Survey, 3 miles west of Tyler.

	Thickness (feet)	Depth (feet)
Yellow clay- - - - -	3	3
White gumbo and clay- - - - -	7	10
White sand- - - - -	2	12
Gray and yellow sand- - - - -	2	14
Blue gumbo and clay- - - - -	6	20
No water sample collected. July 9, 1936.		

Well 290

Side of hill, 300 feet west of east line, 300 feet north of south line, W. F. Andrews Estate 40 acre tract, J. H. McClure Survey, 8 miles west of Tyler.

Surface soil- - - - -	2	2
Red sand- - - - -	4	6
Red shale- - - - -	12	18
Quicksand- - - - -	10	28
Struck water at 18 feet.		
No water sample collected. Aug. 6, 1936.		

Well 295

Near northeast corner M. Rushing 134 acre tract, sec. 26 Thomas Quevado Survey, 10 miles southwest of Tyler.

Gray sand- - - - -	2	2
Black shale- - - - -	2	4
Red clay- - - - -	4	8
Struck water at 4 feet.		
No water sample collected. Sept. 9, 1936.		

Well 296

Side of hill, W. C. Oldham tract, east side of Noonday, sec. 26 Thomas Quevado Survey, 10½ miles southwest of Tyler.

White sand- - - - -	3	3
Gray and red sand- - - - -	2	5
Red clay- - - - -	7	12
Water level, 63 feet below top of ground, 5 hours after hole completed.		
No water sample collected. Sept. 10, 1936.		

Well 299

Side of hill, center of north edge Robertson 37 acre tract, sec. 41 Thomas Quevado Survey, 12 miles southwest of Tyler.

Surface sand- - - - -	2	2
Red sand- - - - -	6	8
No water sample collected. Sept. 10, 1936.		

Well 305

New Birmingham Development Co. 200 acre tract, 2,000 feet west of east line and 50 feet north of south line sec. 44, Thomas Quevado Survey, 15 miles southwest of Tyler.

Logs of W. P. A. test wells in Smith County--Continued

Well 305--Continued

	Thickness (feet)	Depth (feet)
Black soil - - - - -	5	5
Buff-colored shale - - - -	8	13
Buff-colored sandstone - -	1	14
Rock - - - - -		14
No water sample collected. Aug. 1936.		

Well 308

Valley, center of Brooks Salino, H. E. Lasseter tract, Pedro Ellis Bean Survey, 16½ miles southwest of Tyler.

Black soil - - - - -	4	4
Blue clay - - - - -	1	5
Red clay - - - - -	1	6
White clay - - - - -	1	7
Yellow clay - - - - -	1	8
Red clay - - - - -	1	9
Yellow clay - - - - -	1	10
Blue clay - - - - -	4	14
Struck salt water at 10 feet.		
Water level, 7 feet below top of ground, 12 hours after hole completed.		
No water sample collected. Aug. 8, 1936.		

Well 334

Top of hill, 300 feet north of south line, 100 feet west of east line J. E. Golvin tract, sec. 2 Thomas Quevado Survey, 9 miles south of Tyler.

Surface soil - - - - -	2	2
Red sand - - - - -	4	6
Red and white sand - - - -	3	9
Rock - - - - -		9
No water sample collected. Aug. 6, 1936.		

Well 335

Side of hill, 300 feet west of center of east line Marsh & McIlwain 90 acre tract, A. Scott Survey, 8 miles south of Tyler.

Red sand - - - - -	1	1
Red clay - - - - -	6	7
White clay - - - - -	3	10
White sand - - - - -	4	14
Water level, 7.6 feet below top of ground, 1 hour after hole completed.		
No water sample collected. Aug. 30, 1936.		

Well 345

Side of hill, county road, near center of south line M. T. Dumas 107 acre tract, W. H. Steel Survey, 15½ miles south of Tyler.

White sand - - - - -	2	2
Red clay - - - - -	2	4
Yellow sand - - - - -	4	8
Rock - - - - -		8
No water sample collected. Sept. 4, 1936.		

Well 349

Side of hill, at Bullard School on county line, W. H. Steel Survey, 15½ miles south of Tyler.

	Thickness (feet)	Depth (feet)
Yellow sand - - - - -	1	1
Dark sandy clay - - - - -	2	3
White clay - - - - -	1	4
Red shale and yellow sand -	4	8
Very hard blue rock - - - -	10	18
No water sample collected. Sept. 15, 1936.		

Well 350

Side of hill, south side of 6 acre school tract in southeast part of Bullard, W. H. Steel Survey, 15½ miles south of Tyler.

Dark sand - - - - -	1	1
Red sand - - - - -	4	5
Red and gray shale - - - -	2	7
Red shale and yellow sand -	1	8
Coarse yellow sand, ferrug- inous gravel - - - - -	1	9
Hard blue soapstone - - - -	2	11
Hard yellow sandstone - - -	1	12
Hard blue fossiliferous rock - - - - -	18	30
Hard white sand - - - - -	2	32

Struck water at 30 feet.

Water level, 14 feet below top of ground, 12 hours after hole completed.

Water sample collected. Sept. 15, 1936.

Well 366

Valley in J. W. Robbins tract, on north line Jacob Mast Survey, ¾ mile from north-west corner of survey, 400 feet west of Mud Creek, 100 feet south of highway, 13 miles south of Tyler.

Surface soil - - - - -	1	1
White and red sand - - - -	3	4
Red and black sandy clay -	2	6
Red and blue clay - - - -	3	9
Blue gumbo - - - - -	2	11
Water level, 6.5 feet below top of ground, 1½ hours after hole completed.		
Water sample collected. Aug. 4, 1936.		

Well 368

Side of hill, 700 feet east of center of west line J. W. Robbins tract, Jacob Mast Survey, 13½ miles south of Tyler.

Dark blue clay - - - - -	8	8
Rock - - - - -		8

No water sample collected. Aug. 30, 1936.

Logs of W. P. A. test wells in Smith County--Continued

Well 373

Side of hill, near southeast corner of Bass tract, H. Henderson Survey, $9\frac{1}{2}$ miles south of Tyler.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	1	1
Red sandy clay- - - - -	3	4
Red and yellow clay - - -	1	5
Brown and gray clay - - -	1	6
Gray sandy clay - - - - -	1	7
Yellow sandy clay, gray- streaked- - - - -	2	9
Yellow and red sandy clay	2	11
Gray sandy clay - - - - -	1	12
Rock- - - - -		12

No water sample collected. Aug. 10, 1936.

Well 379

Side of hill, center east line $SE\frac{1}{4}NW\frac{1}{4}$ F. Mulharrister Survey, $9\frac{1}{2}$ miles south of Tyler.

Surface soil- - - - -	3	3
Red clay- - - - -	2	5
Red and gray clay - - - -	2	7
Rock- - - - -		7

No water sample collected. Aug. 6, 1936.

Well 383

Side of hill, 500 feet north of south line, 50 feet west of east line J. R. Burkett tract, M. Sewell Survey, 9 miles southeast of Tyler.

Red sand- - - - -	2	2
Yellow sand - - - - -	14	16
Red sand and rock - - - -	1	17
Yellow sand, white-streaked	2	19
Red sand, white-streaked-	2	21
Yellow and white sand - -	3	24
Coarse red sandy clay - -	1	25
Coarse white sand - - - -	1	26
White sand- - - - -	1	27

Struck water at 27 feet.

Water level, 25.8 feet below top of ground, 12 hours after hole completed.

Water sample collected. Aug. 7, 1936.

Well 395

Valley, 500 feet west of Walnut Grove School and Church, 200 feet south of north line and 1, 280 feet west of east line of M. Tipps tract, H. C. Lawrence Survey, 13 miles south of Tyler.

Soil- - - - -	1	1
Red clay- - - - -	4	5
Yellow clay - - - - -	3	8
Blue sandy clay - - - - -	2	10
White and red sand- - - -	1	11

Water level, 3.4 feet below top of ground, 12 hours after hole completed. Water sample collected. Aug. 13, 1936.

Well 397

Side of hill, 30 feet south of north line and 800 feet west of east line of J. H. Steel 48 acre tract, C. N. Garrett Survey, $13\frac{1}{2}$ miles south of Tyler.

	Thickness (feet)	Depth (feet)
Surface soil - - - - -	1	1
White sand - - - - -	2	3
Yellow sand- - - - -	3	6
Yellow sandy clay- - - - -	1	7
Red and white packed sand-	4	11
Brown sand - - - - -	4	15
White sand - - - - -	5	20
Yellow sand- - - - -	4	24
White sand - - - - -	2	26
White and yellow sand- - -	4	30
Yellow sand- - - - -	6	36
White and yellow sand- - -	5	41
White sand - - - - -	3	44
Yellow sand- - - - -	1	45
Pink and white sand- - - -	1	46
Yellow and white sand- - -	2	48

Water sample collected. Aug. 14, 1936.

Well 406

Valley, 800 feet north of south line, 1,280 feet west of east line T. L. Self 109 acre tract, Rasten Survey, $14\frac{1}{2}$ miles south of Tyler.

Surface soil - - - - -	1	1
White sand - - - - -	3	4
Yellow and white sand- - -	4	8
White sand - - - - -	1	9

Struck water at 8 feet.

Water level, 6.4 feet below top of ground, $1\frac{1}{2}$ hours after hole completed.

No water sample collected. Aug. 18, 1936.

Well 407

Side of hill, 800 feet north of south line, 1,000 feet west of east line T. L. Self 109 acre tract, Rasten Survey, $14\frac{1}{2}$ miles south of Tyler.

Surface soil - - - - -	1	1
White sand - - - - -	2	3
Red sandy clay - - - - -	3	6
Yellow sand- - - - -	1	7
Red and white sand - - - -	2	9
Yellow sand- - - - -	1	10
White sand - - - - -	1	11
Gray sand- - - - -	2	13
White sand - - - - -	2	15
Yellow sand- - - - -	2	17
Red sandy clay - - - - -	1	18
Red sand - - - - -	1	19
Quicksand- - - - -	2	21

Struck water at 17 feet.

No water sample collected. Aug. 18, 1936.

Logs of W. P. A. test wells in Smith County--Continued

Well 416

Side of hill, 300 feet east of west line and 800 feet north of south line Aaron Ervin 134 acre tract, Jacob Herrin Survey, 11½ miles southeast of Tyler.

	Thickness (feet)	Depth (feet)
White sand - - - - -	1	1
Red clay and sand - - - - -	2	3
Rock - - - - -		3

No water sample collected. Aug. 12, 1936.

Well 417

Near top of hill, 300 feet east of west line and 300 feet north of south line Aaron Ervin 134 acre tract, Jacob Herrin Survey, 11½ miles southeast of Tyler.

Surface soil - - - - -	1	1
Yellow sandy clay - - - - -	1	2
Red sandy clay - - - - -	2	4
Yellow sandy clay - - - - -	3	7
Yellow sand - - - - -	6	13
Yellow sandy clay - - - - -	5	18
White and yellow sandy clay	3	21
Yellow and red sand - - - - -	4	25
White and yellow sand - - - - -	3	28
Red and white sand - - - - -	2	30
White sand - - - - -	1	31
Pink, white, and yellow sand - - - - -	1	32
White sand - - - - -	2	34
Sand and gravel - - - - -	3	37
Rock - - - - -		37

No water sample collected. Aug. 12, 1936.

Well 422

Side of hill, west side of county road, 1 mile north of Owen, W. A. Parmer Survey, 14 miles southeast of Tyler.

Red sand - - - - -	15	15
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Water level, 1.7 feet below top of ground, 2 hours after hole completed.

No water sample collected. Aug. 21, 1936.

Well 423

East side of county road, 1 mile north of Owen, W. A. Parmer Survey, 14 miles southeast of Tyler.

Red shale - - - - -	10	10
Yellow sand - - - - -	3	13
Quicksand - - - - -	9	22

Struck water at 13 feet.

Water level, 3 feet below top of ground, 24 hours after hole completed.

No water sample collected. Aug. 21, 1936.

Well 425

Between Chapel Hill Road and Tyler Road ½ mile north of Owen, B. J. Wilson tract, W. A. Parmer Survey, 14½ miles southeast of Tyler.

	Thickness (feet)	Depth (feet)
Gray and yellow sand - - -	5	5
Yellow shale - - - - -	2	7
White sand - - - - -	10	17

Struck water at 7 feet.

Water level, 3 feet below top of ground, 10 hours after hole completed.

Water sample collected. Aug. 21, 1936.

Well 429

Top of hill, 1,200 feet west of road and 50 feet south of north line of Mrs. C. Hamilton tract, Ben Lafferty Survey, 15 miles southeast of Tyler.

White sand - - - - -	2	2
Yellow and red sand - - -	2	4
Yellow, red, and white sand - - - - -	2	6
Red clay - - - - -	2	8
Fine yellow sand - - - - -	2	10
White clay - - - - -	4	14

Water level, 12 feet below top of ground, 2 hours after hole completed.

Water sample collected. Aug. 21, 1936.

Well 438

Side of hill, 400 feet west of east line and 600 feet north of south line Tilman Johnson tract, P. Lively Survey, 18 miles southeast of Tyler.

Surface soil - - - - -	1	1
Red clay - - - - -	2	3
Red and gray clay - - - - -	3	6
Red and yellow clay - - - - -	3	9
Gray shale - - - - -	1	10
Gray sandy shale - - - - -	2	12
Brown shale - - - - -	1	13
Gray sand - - - - -	4	17

Struck water at 13 feet.

Water level, 10.8 feet below top of ground, 2½ hours after hole completed.

Water sample collected. Aug. 19, 1936.

Well 444

Valley, south edge of Troup, 50 feet east of I. & G. N. Ry., on county line, Eason Gee Survey, 18½ miles southeast of Tyler.

Buff-colored sand - - - - -	4	4
White and buff-colored sand - - - - -	2	6
Yellow, white and red sand	3	9

Struck water at 6 feet.

Water level, 6.4 feet below top of ground, ½ hour after hole completed.

No water sample collected. Aug. 20, 1936.

Logs of W. P. A. test wells in Smith County--Continued

Well 448

Valley, near northwest corner L. Swann 100 acre tract, O. Seifert Survey, 18 $\frac{1}{2}$ miles southeast of Tyler.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	1	1
Red clay- - - - -	3	4
Blue clay- - - - -	1	5
Yellow clay- - - - -	1	6
Struck water at 5 feet.		
Water level, 1.5 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected Aug. 9, 1936.		

Well 461

Top of hill, crossroads at cemetery 1 mile south of Arp, on tract out of northeast corner P. M. Wilson 100 acre tract, James Jordan Survey, 17 miles southeast of Tyler.

Dark sand - - - - -	1	1
Yellow sand - - - - -	2	3
Red clay- - - - -	11	14
Rock - - - - -		14
No water sample collected. Aug. 25, 1936.		

Well 465

Side of hill, center of NW $\frac{1}{4}$ SW $\frac{1}{4}$ Mayfield 447 acre tract in northeast corner James Jordan Survey, 20 miles southeast of Tyler.

	Thickness (feet)	Depth (feet)
Dark sand - - - - -	1	1
Red clay - - - - -	8	9
White clay- - - - -	1	10
Red sand- - - - -	1	11
White gumbo - - - - -	2	13
Yellow and white sand - -	10	23
Clay - - - - -	7	30
Water level, 18 feet below top of ground, 2 hours after hole completed.		
No water sample collected. Aug. 26, 1936.		

Well 467

South side of road, 1/8 mile west and 1/8 mile north of center of James Jordan Survey, 18 $\frac{1}{2}$ miles southeast of Tyler.

Buff-colored sand - - - -	2	2
Red sand - - - - -	5	7
Red clay - - - - -	8	15
Rock - - - - -		15
No water sample collected. Aug. 27, 1936.		

Partial analyses of water from wells in Smith County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, C. R. Stewart, D. F. Riddell, and Alfred J. Kelly, Chemists, and J. A. Harmaza, Martin Wieland and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
1	J.W. Carpenter	16	Sept.29,1936	2,803	500	172	88	-	1,989	54	1,956
3	D.D. Donnell	28	do.	86	-	-	-	31	32	10	-
5	J.C. Bruner	17	do.	30	2	4	4	31	a/	5	23
6	J.H. Johnson Est.	27	do.	8	-	-	-	-	a/	5	-
8	J.F. Hammond	21	Oct. 2,1936	21	-	-	-	6	a/	10	-
9	W.H. Holland	29	Oct.21,1936	76	-	-	-	12	a/	42	-
10	D. Kensall	26	Oct. 2,1936	249	-	-	-	-	138	34	-
11	Jordan Smith	25	do.	78	-	-	-	49	a/	24	-
12	Jim Hammonds	17	do.	46	8	3	6	24	a/	17	32
13	J.L. Booty, et al.	58	do.	146	-	-	-	37	a/	74	-
14	J.R. Thomas	22	do.	94	1	2	30	18	32	20	11
16	A.J. Smith	13	Oct. 7,1936	88	-	-	-	67	8	14	-
19	Henry Dowell	33	Oct. 6,1936	365	-	-	-	61	59	148	-
20	W.P.A. test well	17	Oct.10,1936	165	-	-	-	18	75	28	-
22	Joe Meyers	35	Oct. 6,1936	49	-	-	-	43	a/	9	-
23	S.H. Lucas	31	Oct. 2,1936	62	-	-	-	6	24	15	-
24	T.N. Jones	42	do.	31	-	-	-	18	a/	10	-
26	C. Yarbrough	24	-	33	9	4	-	-	a/	20	32
27	I.G. Stone	53	Oct.10,1936	68	-	-	-	55	a/	15	-
28	I.J. Hall	31	-	45	-	-	-	31	a/	13	-
30	O.E. Kimberly	40	Oct.10,1936	272	-	-	-	6	160	26	-
31	Josie Flewellen	30	Sept.29,1936	294	32	23	50	165	16	92	174
34	P.V. Smith	435	do.	21	-	-	-	12	a/	7	-
37	State Highway Dept.	80	do.	156	13	9	34	116	28	15	71
38	J.A. Smith	40	do.	209	-	-	-	18	a/	124	-
39	G.T. Tucker	31	do.	49	-	-	-	12	20	7	-
40	Hiram McArthur	24	do.	63	-	-	-	-	a/	40	-
41	W.R. Castle	20	Oct. 2,1936	101	-	-	-	73	a/	26	-
42	W.F. Washburn	24	do.	59	-	-	-	18	a/	28	-
43	Claude W. Pittman	21	July 30,1936	91	-	-	-	31	a/	42	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Smith County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
44	W.P.A. test well	18	July 30, 1936	50	-	-	-	24	12	8	-
45	Mrs. J.H. Jarman	24	do.	21	1	9	-	6	a/	8	41
46	S. Bailey	32	do.	25	2	6	-	18	a/	8	31
47	do.	41	do.	278	-	-	-	-	a/	178	-
48	City of Lindale	33	do.	179	18	18	23	12	a/	114	121
49	Star Cannery	20	do.	149	1	11	41	37	12	66	47
50	C.S. Flewellen	33	Sept. 28, 1936	39	-	4	9	-	a/	26	18
51	J.C. McGill	18	do.	71	-	-	-	37	a/	26	-
52	P.A. Turner	33	do.	43	-	-	-	37	a/	8	-
53	C.D. Coe	2,000	do.	1,942	6	3	783	891	12	700	27
55	S.J. Tucker	15	do.	46	-	-	-	18	12	9	-
56	W.P.A. test well	11	Sept. 3, 1936	156	-	-	-	24	63	30	-
57	do.	18	Sept. 28, 1936	10,391	-	-	-	12	374	6,300	-
60	Mrs. J.D. Hicks	15	do.	93	-	-	-	12	28	28	-
62	C.E. Hicks	23	do.	55	-	-	-	43	a/	13	-
64	J.F. Woods	27	Oct. 10, 1936	62	-	-	-	24	12	16	-
66	J.C. Brown Estate	7	July 28, 1936	97	7	11	17	98	a/	14	62
67	Smith County	80	Oct. 10, 1936	86	-	-	-	85	a/	10	-
68	do.	-	do.	72	-	-	-	37	20	9	-
69	Texas State Park Board	160	Sept. 28, 1936	42	4	7	-	6	18	10	39
70	A.R. Krauss	32	July 28, 1936	78	-	-	-	85	a/	5	-
71	J.P. Pitt	19	do.	33	-	-	-	6	a/	18	-
72	A.B. Hitt	24	Sept. 29, 1936	44	-	-	-	31	a/	12	-
73	J.D. Campbell	40	Oct. 9, 1936	56	-	-	-	18	a/	26	-
74	G.W. Mason Estate	19	Sept. 28, 1936	404	5	21	106	-	126	146	98
75	L.R. Curry Estate	30	do.	27	-	-	-	12	a/	11	-
78	H.H. Chambers Est.	40	Oct. 8, 1936	36	8	3	-	-	12	13	32
79	Mose Davis	30	do.	2,493	-	-	-	37	1,158	526	-
80	J. Walker	-	do.	40	-	3	12	24	a/	13	13
81	J. Tolbert	30	do.	24	-	-	-	12	a/	9	-
83	W.P. Allen	11	do.	37	-	-	-	18	8	7	-
84	W.E. Harrison Est.	26	do.	123	-	-	-	37	28	34	-
86	Dr. J.T. Browning	32	Sept. 1, 1936	152	6	15	18	-	99	14	74

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Smith County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
87	W.P.A. test well	12	Oct. 8, 1936	280	-	-	-	12	157	30	-
88	G.B. Buchanan	40	Sept. 1, 1936	52	-	-	-	12	8	20	-
89	Dr. J.T. Browning	33	do.	236	-	-	-	12	71	80	-
90	J.L. McNutt	60	do.	158	-	-	-	146	18	8	-
91	W.E. Burge	24	do.	215	-	-	-	6	51	88	-
93	L.A. Chapman	17	do.	110	8	6	28	98	12	8	44
95	Morgan Freeman	38	do.	598	-	-	-	37	118	256	-
96	J.E. Farmer	24	Sept. 14, 1936	27	-	-	-	6	a/	14	-
98	John Hampton	30	Sept. 3, 1936	55	-	-	-	24	16	8	-
100	J.R. Garner	16	do.	60	-	-	-	18	12	18	-
101	Joy School Dist. #29	20	Aug. 11, 1936	51	3	5	9	24	8	14	28
102	Mrs. H.E. McVay	26	Sept. 3, 1936	25	-	-	-	6	a/	13	-
103	Moses Wood	21	do.	124	-	-	-	104	12	14	-
104	M. Seay	19	do.	74	-	-	-	6	a/	44	-
105	Winona State Bank	44	do.	43	-	5	8	12	16	8	20
106	Yancy Miller, et al.	40	do.	105	-	-	-	43	12	32	-
108	M. Starnes	28	Sept. 1, 1936	42	-	5	8	6	12	14	20
110	do.	32	Sept. 4, 1936	151	-	-	-	12	16	76	-
111	W.R. Fincher	39	Aug. 11, 1936	221	-	-	-	-	145	10	-
112	C.W. Brown	26	do.	100	-	-	-	-	60	10	-
113	J.A. Marphrey	17	do.	126	-	-	-	104	a/	26	-
115	Mrs. L.B. Florence	21	do.	95	-	-	-	85	a/	16	-
118	I. Roy	39	Sept. 11, 1936	61	-	-	-	6	a/	36	-
119	Myrtle Padgett	30	Sept. 22, 1936	75	-	-	-	31	a/	32	-
120	Mary Brown	42	Sept. 28, 1936	57	-	-	-	12	a/	30	-
121	J.B. Chambers Est.	64	Sept. 22, 1936	74	-	-	-	73	a/	9	-
122	W.C. Lacy	15	do.	40	-	-	-	12	a/	19	-
123	Mrs. E.R. Bateman	45	do.	63	-	-	-	49	a/	15	-
124	G.T. Hill	45	do.	50	2	6	9	6	a/	30	28
125	Frank & Earle Baird	24	Aug. 5, 1936	72	-	-	-	61	a/	14	-
126	G.E. Boulter	27	Aug. 21, 1936	23	-	-	-	12	a/	8	-
127	J.L. Smith	33	Sept. 22, 1936	116	-	-	-	31	a/	58	-
128	E. Williams	23	Sept. 10, 1936	30	-	-	-	6	a/	16	-
130	Mrs. Liza Spencer	14	Sept. 11, 1936	66	-	-	-	37	12	12	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Smith County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
131	A.S. Butler	17	Aug. 11, 1936	70	-	-	-	55	a/	16	-
132	J.C. Smith	34	do.	105	-	-	-	6	a/	64	-
133	Mrs. Geo. Chapman	22	Sept. 11, 1936	49	4	9	2	12	a/	28	45
134	W.M. Barber	24	Aug. 11, 1936	119	-	-	-	12	a/	70	-
136	S.W. Gary	28	Sept. 3, 1936	61	-	-	-	37	12	9	-
138	R.H.C. Butler	27	Sept. 1, 1936	76	5	5	17	43	14	14	33
140	Sallie Walton	28	Sept. 3, 1936	110	-	4	32	-	40	34	15
141	R.L. Johnson	42	Sept. 11, 1936	41	-	-	-	12	12	9	-
142	Walter Jernigan	47	Sept. 9, 1936	30	-	-	-	12	a/	13	-
143	Rose Warren	45	do.	1,434	42	71	395	-	126	800	394
144	Mrs. G.W. Ward	20	Sept. 10, 1936	148	1	5	50	12	a/	86	23
145	- Emmett	21	Aug. 5, 1936	90	3	5	27	79	a/	16	28
146	W.P.A. test well	22	Oct. 1, 1936	150	-	-	-	43	39	38	-
148	A.T. Andrews	58	Sept. 22, 1936	68	6	9	8	31	a/	30	50
151	W.W. Taylor	18	Aug. 12, 1936	22	-	7	-	-	a/	15	20
152	- Gilley	34	do.	60	-	-	-	43	a/	16	-
153	Clarence Brown	27	do.	193	63	21	-	92	a/	64	243
154	Geo. R. Phillips	11	Sept. 18, 1936	100	-	-	-	85	a/	19	-
155	J.H. James	33	Aug. 5, 1936	98	-	-	-	55	a/	34	-
156	Mrs. W.O. Brooks	20	Sept. 11, 1936	133	4	9	30	-	32	58	45
158	W.P.A. test well	19	Sept. 10, 1936	72	-	-	-	31	20	12	-
159	Tull Choice	27	Sept. 8, 1936	182	-	-	-	165	a/	30	-
160	Smith County	Spring	Sept. 11, 1936	26	-	-	-	12	a/	10	-
161	T.J. Epperson	45	July 6, 1936	171	-	-	-	24	26	73	-
162	do.	30	July 3, 1936	31	-	6	3	6	a/	19	25
163	W.S. Wright	96	July 7, 1936	171	12	7	44	18	a/	99	60
167	Charles Garner	23	Sept. 14, 1936	400	4	10	132	67	75	146	51
168	Miss W. Rowell	25	do.	316	-	-	-	110	51	98	-
169	M.S. Shamburger	16	July 28, 1936	158	-	-	-	128	a/	34	-
171	Pat Torrens	23	July 7, 1936	38	-	-	-	18	a/	15	-
172	do.	42	do.	59	-	-	-	49	a/	12	-
175	L.P. Melton	15	July 6, 1936	67	-	-	-	43	14	8	-
176	A.M. Maines	57	July 7, 1936	576	88	49	52	354	155	58	420
177	Robert Belcher	39	July 3, 1936	149	-	-	-	110	a/	38	-
178	Anna Collins	10	do.	144	-	-	-	67	a/	57	-

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Partial analyses of water from wells in Smith County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
180	P.J. Daniels	-	Oct.10,1936	399	2	12	118	-	189	78	52
181	Andy Anderson	29	July 1,1936	87	-	-	-	37	24	15	-
184	B.C. Miller	35	Aug. 5,1936	363	46	33	41	116	46	140	250
185	James Williams	15	July 6,1936	481	-	-	-	18	a/	298	-
187	Mattie Woodley	24	Aug. 7,1936	119	-	-	-	37	a/	108	-
188	O.B. Funderburgh	17	July 6,1936	35	-	-	-	12	a/	16	-
189	O.D. Funderburgh	29	do.	202	-	-	-	43	a/	107	-
190	Mrs. J.T. Dickson	31	Aug.11,1936	546	64	65	52	189	a/	272	425
191	do.	27	Aug.10,1936	87	-	-	-	49	24	8	-
193	Goldstein & Brown	53	Aug.30,1936	95	-	-	-	18	28	26	-
194	W.C. Armstrong	34	Aug.29,1936	74	-	-	-	73	a/	9	-
196	Lon W. Stanley	16	Sept.16,1936	142	-	-	-	110	8	26	-
197	Mrs. W.L. Sloan	14	Aug.30,1936	81	-	-	-	31	a/	36	-
198	H.E. McCoy	23	July 6,1936	52	-	-	-	6	a/	30	-
205	Sam Greenburg	20	July 3,1936	57	4	7	8	24	a/	26	40
207	Frank Raviere	58	July 8,1936	1,405	32	110	101	-	1,122	40	530
209	C.M. Owens	26	July 7,1936	59	-	-	-	18	12	17	-
211	D.K. Caldwell	48	July 8,1936	181	29	38	-	12	a/	108	228
212	L.E. Star	27	July 28,1936	36	-	-	-	31	a/	7	-
214	R.M. Hudnall	47	do.	106	-	-	-	-	a/	68	-
215	Shady Grove School District	49	do.	23	4	6	-	6	a/	10	34
216	W.P.A. test well	29	do.	481	-	-	-	67	291	9	-
217	J.M. Holt	61	July 8,1936	43	-	-	-	18	a/	18	-
218	W.E. Holder	32	do.	80	4	18	-	12	a/	52	86
220	Jones Valley School District	56	do.	90	-	-	-	49	a/	32	-
221	Mrs. N.A. Roberts	11	July 9,1936	288	-	-	-	37	105	70	-
222	McAtea & Dr. Brokaw	12	July 17,1936	34	-	-	-	18	a/	12	-
223	J.B. Mayfield	60	July 9,1936	339	-	-	-	18	219	9	-
224	Francis Stokes	18	July 8,1936	108	-	-	-	12	16	48	-
227	W.P.A. test well	12	July 9,1936	83	-	-	-	31	31	9	-
228	Alec Woldert	96	July 30,1936	61	-	-	-	6	a/	36	-
230	Roy Stephens	24	July 8,1936	123	-	-	48	43	16	38	-
232	J.L. Browning	40	July 9,1936	499	64	23	92	244	76	124	254

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Partial analyses of water from wells in Smith County--Continued

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Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
234	Willow Brook Country Club	827	July 14,1936	97	10	6	22	104	a/	8	49
236	H.S. Reynolds	21	July 9,1936	91	-	-	-	31	a/	42	-
237	B.O. Dike	64	July 15,1936	19	-	-	-	12	a/	6	-
241	Mollie Porter Est.	-	July 31,1936	69	-	-	-	67	a/	9	-
243	Joe Porter	34	July 14,1936	73	8	6	12	31	a/	32	44
244	W.P.A. test well	37	July 15,1936	108	-	-	-	37	24	28	-
245	- Chitwood	32	July 14,1936	197	-	-	-	31	a/	110	-
247	G.E. Steel	30	July 15,1936	904	-	-	-	201	387	122	-
249	Mittie Davenport Spring		July 10,1936	46	-	-	-	18	12	9	-
250	Mrs. Oscar McFarland	41	July 15,1936	34	-	-	-	24	a/	9	-
251	Earle Scroggins Spring		do.	46	-	-	-	18	a/	20	-
252	Sid Morris	45	do.	494	43	44	64	61	173	140	287
254	C.A. Arnold	24	July 16,1936	118	-	-	-	18	a/	66	-
256	W.P.A. test well	19	Aug.28,1936	142	-	-	-	6	55	38	-
257	Cleveland Crow	48	July 15,1936	190	-	-	-	37	a/	102	-
258	E.L. Little	31	Sept.18,1936	59	-	-	-	18	a/	28	-
*260	R.M. McCrary	23	do.	39	-	-	-	24	a/	12	-
261	Joe Myers	Spring	Aug.28,1936	139	-	-	-	6	a/	86	-
262	S. Holmes	36	do.	268	-	-	-	12	111	64	-
263	Howard Byars	24	do.	150	-	-	-	-	75	28	-
264	Nathan Harris	29	do.	101	4	10	21	79	16	11	51
265	W.F. Hester	40	do.	127	-	-	-	6	40	42	-
266	Cecil Hall	66	do.	57	-	5	16	37	a/	18	20
267	F.A. Woodward	31	do.	104	-	-	-	12	a/	60	-
268	K. Marmar Est.	Spring	Sept.11,1936	35	3	-	13	18	8	8	7
269	do.	46	July 15,1936	138	-	-	-	18	32	50	-
270	H.J. Ellis	29	Aug.28,1936	108	-	-	-	104	a/	15	-
271	J.A. Hester	36	do.	395	-	-	-	12	a/	246	-
272	A.L. Thompson	28	Sept.15,1936	26	-	-	-	12	a/	10	-
274	W.P.A. test well	36	Sept.8,1936	77	-	-	-	37	20	12	-
276	W.M. Barber	39	Aug.28,1936	98	-	-	-	104	a/	8	-
277	John Hughes	Spring	July 16,1936	23	-	3	5	12	a/	9	12
279	W.P.A. test well	20	July 9,1936	62	-	6	14	24	16	14	25

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Partial analyses of water from wells in Smith County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
280	A.L. Thompson	24	Aug. 28, 1936	93	-	-	-	85	a/	15	-
281	F.F. Thompson	31	July 10, 1936	26	-	-	-	18	a/	7	-
282	Mrs. Carl McGinney	49	do.	144	-	-	-	12	a/	86	-
283	M.E. Williams	27	Oct. 5, 1936	46	-	-	-	12	a/	23	-
284	Black Fork School District	34	-	44	4	6	5	37	a/	11	34
285	Mrs. - Tunnel	16	Oct. 5, 1936	368	-	-	-	122	28	146	-
286	S.V. Staples	13	July 9, 1936	98	9	12	11	24	a/	54	73
287	Missouri Pacific R.R. Co.	18	do.	88	-	-	-	37	a/	37	-
291	- Andrews	41	July 20, 1936	102	-	-	-	67	a/	30	-
293	W.W. Cates	24	Oct. 8, 1936	33	-	4	8	18	a/	12	15
294	Judge - Lindsey	31	Sept. 18, 1936	345	19	19	65	18	205	28	127
296	W.P.A. test well	12	Sept. 10, 1936	1,269	86	116	99	-	728	240	691
297	S. McMinn Estate	16	Sept. 5, 1936	131	-	-	-	61	20	34	-
298	G. Knight	16	do.	139	2	9	40	24	a/	76	40
300	A.D. McMinn	31	do.	156	-	-	-	-	79	28	-
301	do.	28	Sept. 7, 1936	1,102	122	83	56	-	809	32	646
302	Joe Meyer	11	do.	272	-	-	-	12	130	50	-
303	B.W. Wofford, et al.	20	do.	161	8	16	31	122	32	14	65
306	Hy. Lovelace	27	Sept. 4, 1936	50	-	-	-	18	16	8	-
307	Mrs. M.K. Carter	-	Sept. 7, 1936	93	-	4	34	92	a/	10	15
310	H.E. Lasseter	19	Sept. 4, 1936	557	-	-	-	110	87	220	-
311	Mrs. O.R. Brooks Spring	do.	do.	34	-	-	-	18	a/	12	-
312	D.R. Brooks	28	do.	42	-	7	5	24	12	6	30
313	H.W. Walker	37	do.	110	28	19	-	37	8	37	147
314	C.A. Burks	33	do.	27	-	-	-	12	a/	11	-
315	A.M. Stripling	19	Sept. 17, 1936	16	-	-	-	6	a/	7	-
316	A.A. Scritchfield	17	Sept. 15, 1936	37	-	-	-	18	a/	14	-
317	Mrs. J.B. Rather	17	Sept. 17, 1936	101	-	-	-	104	a/	10	-
318	O.R. Dennis	24	Sept. 4, 1936	97	-	-	-	55	20	15	-
319	R.E. Burkett	22	do.	144	3	11	25	-	87	18	52
320	Joe Meyer	19	Sept. 8, 1936	229	-	-	-	165	52	13	-
321	J.L. Cope	16	Aug. 6, 1936	152	-	-	-	67	a/	62	-
322	C.C. Evans	26	Sept. 17, 1936	30	-	-	-	12	a/	13	-

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Partial analyses of water from wells in Smith County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
323	Byron Walker	32	Aug. 6, 1936	123	31	12	-	73	a/	44	127
324	City of Flint	32	do.	244	26	18	43	104	a/	106	141
326	L.A. Alexander	14	do.	1,442	-	-	-	134	568	338	-
327	Reuben Jackson	18	do.	207	-	-	-	31	56	66	-
328	B.M. McMinn	21	Sept. 17, 1936	3,514	322	381	164	-	2,529	118	2,364
330	Horace Flournoy Spring	Aug. 6, 1936	163	-	-	-	6	67	40	-	
331	Oscar McGehee	28	Sept. 18, 1936	126	3	19	15	6	16	70	87
332	S. Smith	24	do.	57	-	-	-	43	a/	14	-
333	W.P. Little	10	do.	69	-	-	-	43	a/	22	-
335	W.P.A. test well	14	Aug. 30, 1936	85	-	-	-	12	20	30	-
336	Ed. Smyrl	46	do.	99	-	-	-	43	12	30	-
337	Marsh & McIlwain	66	do.	91	-	6	27	12	a/	52	25
338	L.T. Smith	48	do.	349	-	-	-	49	114	94	-
339	do.	240	do.	325	46	22	36	134	127	28	153
340	G.N. Smith	34	do.	175	-	-	-	24	32	70	-
341	R.E. Marsh & W.B. Marsh	29	Sept. 17, 1936	131	-	-	-	18	40	38	-
342	Bulah Daniels	35	do.	34	-	7	3	12	a/	18	30
343	Cotton Belt R.R.Co.	14	Sept. 15, 1936	52	-	1	19	18	11	12	2
344	do.	Spring	do.	47	1	-	17	12	8	15	2
347	U.S. Government Cannery	24	Sept. 16, 1936	892	33	47	223	24	227	350	276
348	Bullard Ind. School District	43	Sept. 15, 1936	199	32	17	17	110	48	30	147
350	W.P.A. test well	32	-	187	28	22	10	92	24	58	159
351	C.M. Gilmore	50	Sept. 15, 1936	979	85	62	196	189	67	475	468
352	J.T. Robbins	44	Sept. 16, 1936	419	45	58	24	61	38	224	352
353	J.L. Killough	19	do.	67	-	-	-	37	12	13	-
354	Smith County	Spring	Sept. 17, 1936	54	6	4	9	18	a/	26	33
355	A.J. McMinn heirs	20	Aug. 18, 1936	219	-	-	-	153	52	13	-
356	M.D. Cord	Spring	do.	58	-	-	-	18	16	13	-
357	Mrs. S.A. Morgan	14	Aug. 17, 1936	88	-	-	-	43	a/	34	-
359	J. Green	34	do.	786	-	-	-	24	254	260	-
361	J.F. Horton	Spring	do.	32	-	-	-	-	16	6	-

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362	J.T. Key	53	Aug.17,1936	83	-	-	-	67	10	9	-
363	R.L. Ray	26	do.	398	-	-	-	85	148	76	-
364	W.W. Cates	36	Aug.14,1936	50	-	-	-	37	a/	13	-
365	O.T. Robins	Spring	do.	145	-	-	-	92	36	12	-
366	W.P.A. test well	11	do.	86	-	-	-	49	24	8	-
367	J.T. Robbins	38	do.	987	80	58	175	-	334	340	441
369	Andrew Loftin	50	Aug.17,1936	66	7	11	4	73	a/	8	62
370	Lula Robinson	42	Sept.17,1936	74	-	-	-	55	14	6	-
371	L.P. Cook	38	Aug.13,1936	115	-	-	-	110	a/	16	-
374	Mrs. - McCutcheon	6	Aug.10,1936	41	-	-	-	31	a/	10	-
375	J.B. McKinsey	Spring	do.	39	-	-	-	31	a/	9	-
376	W.T. Byron	23	Aug.30,1936	130	-	-	-	12	12	66	-
377	T.A. Hill	Spring	do.	202	7	8	52	12	67	62	50
378	A.P. Raspberry	30	do.	180	-	-	-	-	12	104	-
380	T.R. Griffin	21	Aug.10,1936	119	30	18	-	18	a/	62	151
381	Dr. C.H. Willingham	25	Aug. 8,1936	172	-	-	-	85	64	7	-
383	W.P.A. test well	27	Aug. 7,1936	19	-	-	-	6	a/	9	-
384	W.D. Lilly	23	do.	62	-	-	-	18	a/	30	-
385	Dr. W. Willingham	27	do.	160	17	12	29	85	a/	60	93
386	City of Whitehouse	23	do.	31	8	6	-	6	a/	14	44
387	Eva Mink	13	Aug.13,1936	133	-	-	-	37	a/	66	-
388	Elmer Burns	26	Aug. 7,1936	128	-	-	-	18	a/	72	-
390	D.W. Burt	27	Aug.18,1936	102	2	7	24	24	36	21	34
391	A.J. & A.F. Hearon	36	do.	82	-	-	-	73	a/	14	-
392	C.P. Stewart	18	Aug.13,1936	97	-	-	-	92	a/	14	-
393	J.P. Hagan	18	Aug.18,1936	127	-	-	-	49	28	30	-
394	J.B. Rawlins	24	Aug.13,1936	128	-	-	-	128	a/	15	-
395	W.P.A. test well	36	do.	129	-	-	-	55	20	36	-
396	Walnut Grove School District	Spring	do.	111	-	-	-	116	a/	10	-
397	W.P.A. test well	48	Aug.14,1936	524	-	-	-	24	287	62	-
398	H.F. Bivens	38	Aug.13,1936	325	39	21	41	18	127	88	183
399	J.H. Steele	20	do.	1,259	-	-	-	-	445	402	-
400	J.N. Yarbrough	58	do.	293	11	13	75	-	48	146	83

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401	J.N. Yarbrough Spring		Aug.13,1936	110	-	-	-	67	20	17	-
402	Susie Bowman	42	do.	355	-	-	-	-	167	76	-
403	J.W. Barnes	49	Aug.14,1936	1,162	82	119	66	-	527	208	694
404	Elizabeth Bowman	38	do.	146	2	10	30	-	80	24	46
408	S. Stovall	22	Aug.20,1936	544	22	24	130	6	223	142	155
409	Mrs. Ida Brown	37	Aug.13,1936	169	-	-	-	6	76	36	-
410	D.N. Shaw	16	do.	24	-	-	-	6	a/	12	-
411	J.C. Hale	34	do.	167	5	12	34	-	72	44	63
412	Grady Fite	28	do.	33	-	-	-	24	a/	8	-
413	M.A. Simmons	31	Aug.18,1936	91	-	-	-	92	a/	10	-
415	Dr. C.H. Willingham	34	Aug.12,1936	896	74	46	176	24	246	342	374
418	J. Allen Rushing	32	do.	131	10	10	27	85	12	30	66
419	Ned Langley	37	do.	67	-	-	-	12	26	13	-
420	B.J. Wilson	18	do.	217	-	-	-	-	91	56	-
421	Nannie Hancock	30	Aug.21,1936	132	11	11	18	37	64	10	72
422	W.F.A. test well	15	do.	51	-	-	-	12	16	12	-
424	B.J. Wilson	20	do.	94	-	-	-	31	20	26	-
425	W.P.A. test well	17	do.	113	-	-	-	24	51	13	-
426	G.W. Swinney	23	do.	13	-	-	-	-	a/	8	-
427	Mrs. J.B. Bonner	25	do.	229	4	17	54	-	a/	154	80
428	B.J. Wilson	32	do.	162	7	12	29	-	68	46	68
429	W.P.A. test well	14	do.	178	-	-	-	85	43	30	-
430	J.J. Swinney	21	do.	154	-	-	-	31	80	10	-
431	Jasper Wilson	23	do.	180	-	-	-	31	52	52	-
432	W. McClendon Spring		do.	44	-	3	12	18	12	8	13
433	J. McClendon	19	do.	5,415	326	545	592	98	3,368	536	3,056
434	A.B. Adams Estate	25	Aug.19,1936	60	-	-	-	18	a/	29	-
436	Sally Duncan Estate	25	do.	939	177	54	33	79	616	20	663
437	V.B. Wilson	25	do.	266	28	14	34	-	151	39	129
438	W.P.A. test well	17	do.	5,867	311	411	607	-	4,093	400	2,468
439	A.E. McKister Est.	23	do.	145	-	-	-	6	88	10	-
440	H.R. White	16	do.	212	-	-	-	6	131	14	-
442	J.F. McMinn	30	-	193	-	-	-	12	52	70	-
443	City of Troup	302	Dec.9,1936	589	44	17	131	122	299	38	181

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Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
445	J.M.L. Brown	37	Aug. 20, 1936	167	-	-	-	-	a/	107	-
446	O.D. Burns	17	do.	86	-	-	-	-	a/	55	-
447	Cornelius Hall	15	Aug. 18, 1936	313	-	-	-	6	151	60	-
448	W.P.A. test well	6	Aug. 9, 1936	191	-	-	-	18	102	20	-
449	Laura Swann	20	Aug. 18, 1936	852	-	-	-	6	310	261	-
450	Jake Malone Estate	14	Aug. 26, 1936	129	-	-	-	92	28	9	-
451	W.H. Howard	52	do.	129	-	-	-	85	a/	38	-
452	C.M. Higginbotham et al.	35	Aug. 21, 1936	41	-	-	-	-	a/	26	-
453	J.P. Cooper	28	Aug. 25, 1936	51	-	-	-	49	a/	7	-
455	R.G. Wright	30	do.	129	18	16	-	6	68	24	110
456	R.G. Wright Jr.	22	do.	321	-	-	-	6	201	20	-
457	P. Lydia	21	Aug. 26, 1936	1,618	73	110	327	-	316	792	633
458	W.E. Rawles Estate	20	Aug. 21, 1936	21	-	-	-	6	a/	10	-
460	T.F. Cummings	25	do.	75	-	4	21	12	28	16	15
462	J.B. Hayfield	500	Aug. 26, 1936	299	60	22	17	183	80	30	239
463	S.S. Cook	250	Aug. 25, 1936	251	20	15	45	61	115	26	109
464	Sinclair Oil & Gas Company	800	do.	147	26	9	13	61	52	17	100
466	Martin Duckworth	31	Aug. 5, 1936	80	-	-	-	67	a/	16	-
469	City of Arp	360	do.	519	48	23	97	140	242	40	214
470	Mrs. M.A. Hawkins	27	do.	186	-	-	-	31	72	38	-
471	Hurricane Refining Company	388	Sept. 22, 1936	367	26	17	76	98	166	34	136
473	Clay Refining Co.	824	do.	522	4	6	210	549	16	16	34
474	General American Refining Co.	816	Aug. 27, 1936	499	2	9	196	519	28	9	40
475	do.	494	do.	267	11	12	70	116	87	30	77
476	do.	450	Aug. 28, 1936	272	15	11	67	104	100	28	82
477	Emma Adams, et al.	27	Sept. 22, 1936	235	-	-	-	18	32	112	-
478	J.G. Sartain	68	Aug. 28, 1936	64	-	-	-	55	a/	12	-
479	J.B. Wilson	200	Aug. 27, 1936	292	18	12	63	37	151	30	93
480	S.A. Sellman	45	Aug. 6, 1936	3,390	477	343	38	85	2,436	54	2,602
482	T.O. Wright	14	Aug. 25, 1936	97	-	-	-	49	28	11	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Smith County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
483	Dora Wright	18	Aug. 25, 1936	83	-	-	-	85	a/	8	-
484	- Wolford	-	Aug. 28, 1936	192	-	-	-	12	100	26	-
485	R.W. Fair	272	Aug. 27, 1936	318	30	16	61	146	119	20	140
486	do.	19	do.	433	9	13	113	12	270	22	78
487	J.J. Denton	385	Aug. 25, 1936	757	9	2	311	811	24	12	32
488	Roy Loosier	500-600	Aug. 27, 1936	139	10	7	30	137	40	34	55
490	G. Wilson	25	do.	1,175	204	66	49	-	839	17	781
491	Will D. Pace	31	Aug. 20, 1936	176	-	17	32	-	91	36	70
492	A.S. Jarvis	44	do.	216	-	-	-	12	a/	132	-
493	do.	70-80	do.	35	-	-	-	18	a/	13	-
494	S.S. Stone	19	do.	116	-	-	-	122	a/	10	-
496	J.H. Sharp	46	do.	103	-	-	-	49	a/	40	-
497	do.	32	do.	86	4	7	19	24	a/	44	40
a/ Sulphate less than 10 parts per million.											
* 259	Gus Taylor	14	Sept. 28, 1936	71	-	-	-	37	26	26	-

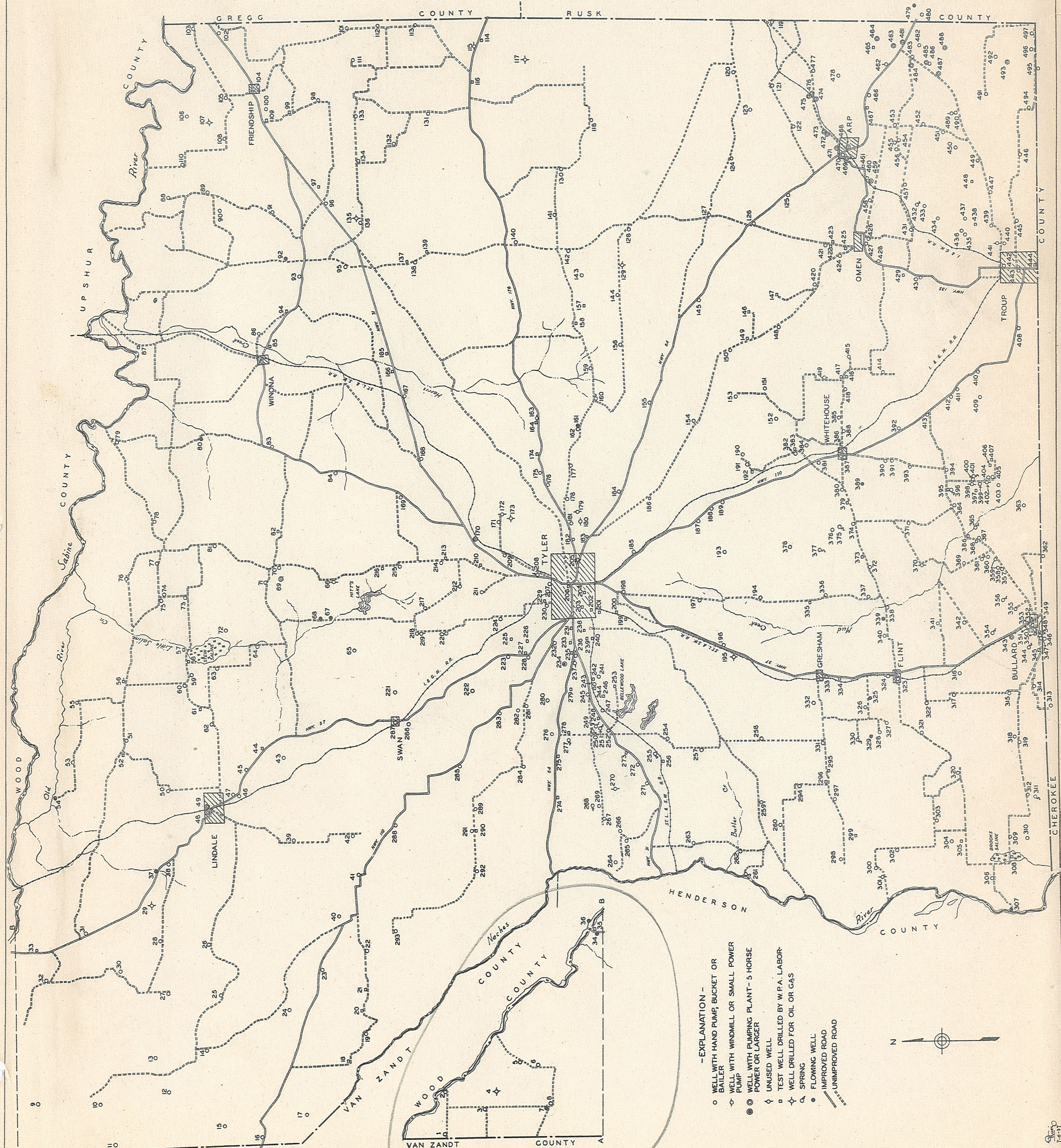
MAP OF SMITH COUNTY, TEXAS SHOWING LOCATIONS OF WATER WELLS LISTED

FIELD WORK BY
W. M. LYLE
PROJECT SUPERINTENDENT
W.P.A. PROJECT 2073

BASE COMPILED FROM
LAND OWNERSHIP MAP
AND FIELD NOTES

TEXAS BOARD OF
WATER ENGINEERS
ASSISTED BY
U.S. GEOLOGICAL SURVEY

SCALE
0 1/2 1 2 3 4 5 6 7 8 MILES



- EXPLANATION -
- WELL WITH HAND PUMP, BUCKET OR BAILER
 - ◐ WELL WITH WINDMILL OR SMALL POWER PUMP
 - ⊗ WELL WITH PUMPING PLANT - 5 HORSE POWER OR LARGER
 - ⊕ UNUSED WELL
 - ★ TEST WELL DRILLED BY W.P.A. LABOR
 - △ WELL DRILLED FOR OIL OR GAS
 - SPRING
 - ◇ FLOWING WELL
 - IMPROVED ROAD
 - - - UNIMPROVED ROAD

